CDX-7580

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 10 watts per channel minimum continuous average power into 4 ohms, both channels driven, from 40 – 15,000 Hz with no more than 1% total harmonic distortion.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-200Z-33

Other Specifications

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output:
25 W × 2 (at 4 ohms)*
9 W × 4 (at 4 ohms)*
* Measured at 14.4 V

CD player section

System: Compact disc digital audio system
Frequency response: 10 – 20,000 Hz ±3 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Below measurable limit
Laser Diode Properties:
Material
GaAlAs
Wavelength
780 nm
Emission Duration
Continuous
Laser out-put Power
Less than 44.6 μW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

General

Power requirements: 12 V DC car battery (negative ground)
Current drain: 800 mA (CD playback)
2 A (during disc loading or eject)
Operating temperature:
–10°C to 50°C (15°F to 120°F)
Dimensions: Approx. 182 × 53 × 166 mm (w/h/d) ($7^1/_4 \times 2 \times 6^5/_8$ in.)
Weight: Approx. 2.3 kg (5 lb 1 oz)
Tone controls: Bass ±10 dB (100 Hz)
Treble ±10 dB (10 kHz)
Supplied accessories:
Mounting hardware (1 set)
Optional accessories:
Mounting kit
Cleaning cloth XP-CD1

Tuner section

	FM	AM
Tuning range	87.9 – 107.9 MHz	530 – 1,710 kHz
Antenna terminal	FM/AM external antenna connector	
Intermediate frequency	10.7 MHz	450 kHz
Usable sensitivity	12 dBf (1.1 μV/75 ohms)	35 μV
Selectivity	75 dB at ±400 kHz	—
Signal-to-noise ratio	70 dB (monaural) 65 dB (stereo)	55 dB
Harmonic distortion at 1 kHz	0.3% (monaural) 0.5% (stereo)	0.3%
Stereo separation	35 dB	—
Frequency response	30 Hz – 15,000 Hz ±3 dB	

Design and specifications subject to change without notice.

FM/AM COMPACT DISC PLAYER

SONY®

MICROFILM

TABLE OF CONTENTS

Section	Title	Page
	Specifications	1
	Servicing Note	2
	SECTION 1. GENERAL	
	Location of Controls	3
	SECTION 2. CIRCUIT DESCRIPTION	4
	SECTION 3. MECHANICAL ADJUSTMENTS	6
	SECTION 4. ELECTRICAL ADJUSTMENTS	6
	SECTION 5. DIAGRAMS	
5-1.	Block Diagram	11
5-2.	Semiconductor Lead Layouts	15
5-3.	Printed Wiring Boards (MD Section)	16
5-4.	Schematic Diagram (MD Section)	19
5-5.	Circuit Board Location	21
5-6.	Printed Wiring Boards (MAIN Section)	22
5-7.	Schematic Diagram (MAIN Section)	25
5-8.	Schematic Diagram (TUNER Section)	29
5-9.	IC Block Diagrams	30
5-10.	WAVEFORMS	33
	SECTION 6. EXPLODED VIEWS	35
	SECTION 7. ELECTRICAL PARTS LIST	41

SERVICING NOTE

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

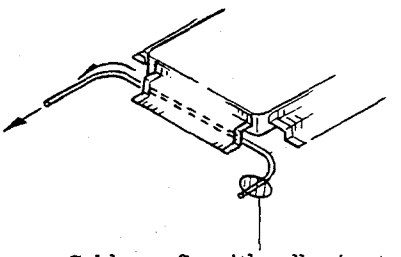
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

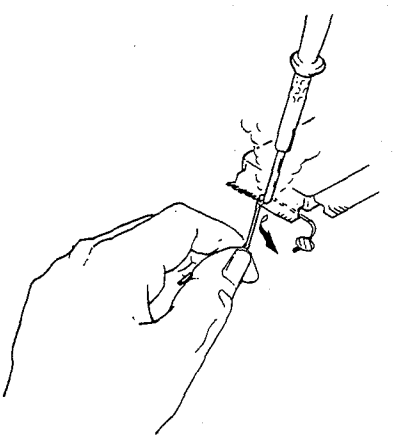
Removing the Flat Package IC

1. Prepare an enameled wire (0.3mm diameter) and apply it to the back side of the IC pins as illustrated below.



Solder or fix with adhesive tape.

2. Heat the IC pin with the soldering iron and draw the enameled wire so that the IC pin is removed from the pattern as illustrated.



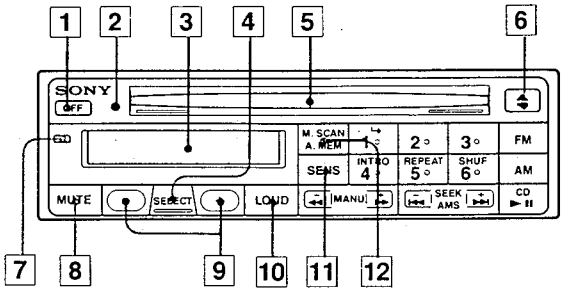
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

Location of Controls

General section



1 OFF (power off) button

2 Reset button

3 Display window

4 SELECT (volume/balance/bass/treble/fader select) button

5 Disc insertion slot

6 ⏏ (eject) button

7 ILL (illumination color change) button
Press to change the color of illumination. Two colors, green and amber, are available.

8 MUTE button
Press to momentarily mute the sound. Press again to restore the same level as before.

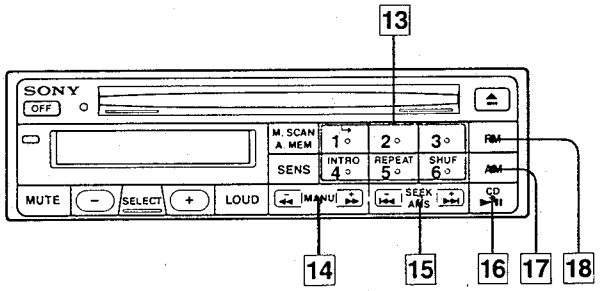
9 −/+ buttons

10 LOUD (loudness) button
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

11 SENS button

12 M.SCAN (memory scan) button
A.MEM (automatic memory)

Radio/CD section



13 Number	During disc play	During radio reception
1	↳ (skipping to the top) button	Preset number buttons
2	—	
3	—	
4	INTRO button	
5	REPEAT button	
6	SHUF (shuffle) button	

	During disc play	During radio reception
14	MANU ◄◄/►► (manual search) button	MANU +/− (manual tuning) button
15	AMS* ⏮/⏭ button	SEEK +/− (automatic tuning) button

16 CD ►II (disc play/pause) button

17 AM (tuner on/band select) button

18 FM (tuner on/band select) button

* Automatic Music Sensor

SECTION 2
CIRCUIT DESCRIPTION

IC3 PINS (CXD1167Q)

Pin No.	Terminal	I/O	Description
1	FSW	O	Output time constant transfer.
2	MON	O	ON/OFF Control output.
3	MDP	O	Output drive of spindle motor.
4	MDS	O	Output drive of spindle motor.
5	EFM	I	Input the EFM signal from RF amplifier.
6	ASY	O	Control the slice level of EFM signal for output.
7	LOCK	O	"H" is H output, "L" is L output.
8	VCOO	O	Output VCO.
9	VCOI	I	Input VCO.
10	TEST	I	(0 V)
11	PDO	O	Phase compare output.
12	VSS	–	GND (0 V)
13	CLK	I	Data latch/Clock input from CPU.
14	XLT	I	Input the latch from CPU.
15	DATA	I	Serial data input from CPU.
16	XRST	I	System reset input.
17	CNIN	I	Input the tracking pulse.
18	SENS	O	Address.
19	MUTG	I	Muting input.
20	CRCF	O	Subcode Q signal output.
21	EXCK	I	Clock input for subcode serial output.
22	SBSO	O	Subcode serial output.
23	SUBQ	O	Subcode Q signal output.
24	SCOR	O	Subcode sync S0+S1 signal output.
25	SQCK	I/O	Subcode Q signal clock.
26	SQEX	I	Selective output of SQCK.
27	DOTX	O	Digital out output.
28	GFS	O	Display output.
29	TEST	I	"H" or "L".
30	TEST	I	"H" or "L".
31	TEST	I	"H" or "L".
32	TEST	I	"H" or "L".
33	VDD	–	POWER (+5 V)
34	TEST	I	"H" or "L".
35	TEST	I	"H" or "L".
36	TEST	I	"H" or "L".
37	TEST	I	"H" or "L".
38	TEST	I	"H" or "L".
39	TEST	I	"H" or "L".
40	TEST	I	"H" or "L".
41	TEST	I	"H" or "L".

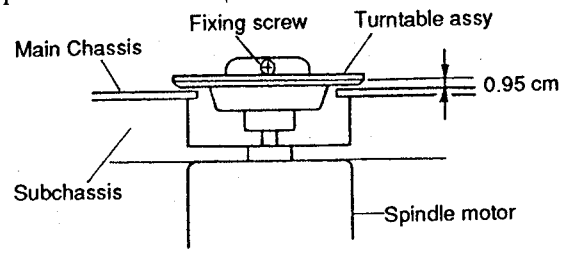
IC3 PINS (CXD1167Q)

Pin No.	Terminal	I/O	Description
42	TEST	I	"H" or "L".
43	TEST	I	"H" or "L".
44	TEST	I	"H" or "L".
45	TEST	I	"H" or "L".
46	TEST	I	"H" or "L".
47	TEST	I	"H" or "L".
48	TEST	I	"H" or "L".
49	TEST	I	"H" or "L".
50	TEST	I	"H" or "L".
51	C4M	O	X'tal. f = 4.2336 MHz
52	VSS	–	GND (0 V)
53	XTAI	I	X'tal oscillate input. f = 8.4672 MHz or 16.9344 MHz
54	XTAO	O	X'tal oscillate output. f = 8.4672 MHz or 16.9344 MHz
55	MD1	I	Mode select input 1.
56	MD2	I	Mode select input 2.
57	MD3	I	Mode select input 3.
58	SLOB	I	Code change input of audio data output.
59	PSSL	I	Mode change input of audio data output.
60	APTR	O	Aperture control output. R-ch: "H".
61	APTL	O	Aperture control output. L-ch: "H".
62	DA01	O	PSSL = "H": DA01 output. PSSL = "L": C1F1 output.
63	DA02	O	PSSL = "H": DA02 output. PSSL = "L": C1F2 output.
64	DA03	O	PSSL = "H": DA03 output. PSSL = "L": C2F1 output.
65	DA04	O	PSSL = "H": DA04 output. PSSL = "L": C2F2 output.
66	DA05	O	PSSL = "H": DA05 output. PSSL = "L": C2FL output.
67	DA06	O	PSSL = "H": DA06 output. PSSL = "L": C2PO output.
68	DA07	O	PSSL = "H": DA07 output. PSSL = "L": RFCK output.
69	DA08	O	PSSL = "H": DA08 output. PSSL = "L": WFCK output.
70	DA09	O	PSSL = "H": DA09 output. PSSL = "L": $\overline{\text{PLCK}}$ output.
71	DA10	O	PSSL = "H": DA10 output. PSSL = "L": UGFS output.
72	DA11	O	PSSL = "H": DA11 output. PSSL = "L": GTOP output.
73	VDD	–	POWER (+5 V)
74	DA12	O	PSSL = "H": DA12 output. PSSL = "L": RAOV output.
75	DA13	O	PSSL = "H": DA13 output. PSSL = "L": C4LR output.
76	DA14	O	PSSL = "H": DA14 output. PSSL = "L": BCLK output.
77	DA15	O	PSSL = "H": DA15 output. PSSL = "L": $\overline{\text{BCLK}}$ output.
78	DA16	O	PSSL = "H": DA16 output. PSSL = "L": DATA output.
79	WDCK	O	Strobe signal output. DF ON: 176.4 kHz, DF OFF: 88.2 kHz
80	LRCK	O	Strobe signal output. DF ON: 88.2 kHz, DF OFF: 44.1 kHz

SECTION 3
MECHANICAL ADJUSTMENTS

Turntable Height Adjustment

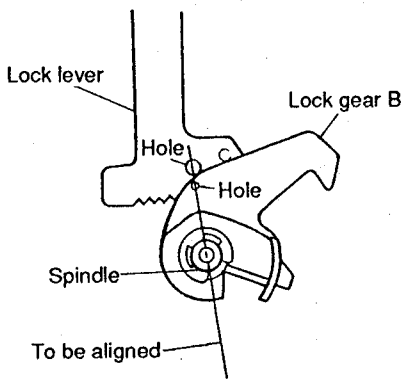
Loosen the fixing screws and adjust the height to the specification illustrated.



Lock Gears (A and B) Installing Adjustment

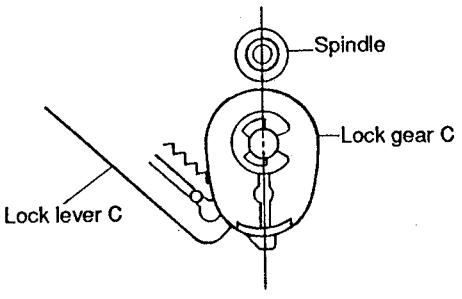
Since installing lock gears A and B is the same, only lock gear B is described below.

1. Rotate the gear near the motor with your fingers to move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix the lock gear so that the holes of the lock lever and the lock gear and the spindle are roughly aligned.



Lock Gear C installing Position Adjustment

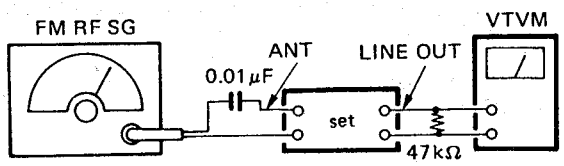
1. Rotate the gear near the motor and move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix lock gear C so that the spindle, the lock gear C fixing axis and the center of the lock gear C projection are roughly aligned.



SECTION 4
ELECTRICAL ADJUSTMENTS

Carrier leak

Adjustment:



Carrier frequency:	US, Canadian model: 97.9MHz AEP, E model: 98.0MHz
Output level:	1mV (More than 35dB)
Mode:	FM
Modulation:	Pilot signal 19kHz, 7.5kHz deviation (10%)

Procedure:

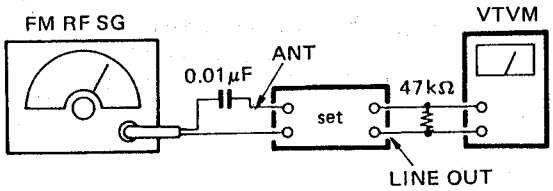
1. Tune-up at US, Canadian model: 97.9MHz, AEP, E model: 98.0MHz
2. Adjust RV601.

FM stereo separation adjustment

Conditions:

BAND SWITCH	FM STEREO
FREQUENCY	US, Canadian model: 97.9MHz AEP, E model: 98.0MHz

Adjustment:



Carrier frequency:	US, Canadian model: 97.9MHz AEP, E model: 98.0MHz
Output level:	1mV (More than 35dB)
Mode:	FM
Modulation:	Main channel: 1kHz, 33.75kHz deviation (45%) Pilot signal: 19kHz, 7.5kHz deviation (10%) Subchannel: 1kHz, 33.75kHz deviation (45%)

Procedure:

FM Stereo SSG Output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	Adjust RV602 so that the VTVM reading is minimum. (B)
R-CH	R-CH	(C)
L-CH	R-CH	Adjust RV602 so that the VTVM reading is minimum. (D)

Note: The separation values in the two channels should be identical.
(A) – (B) = (C) – (D)

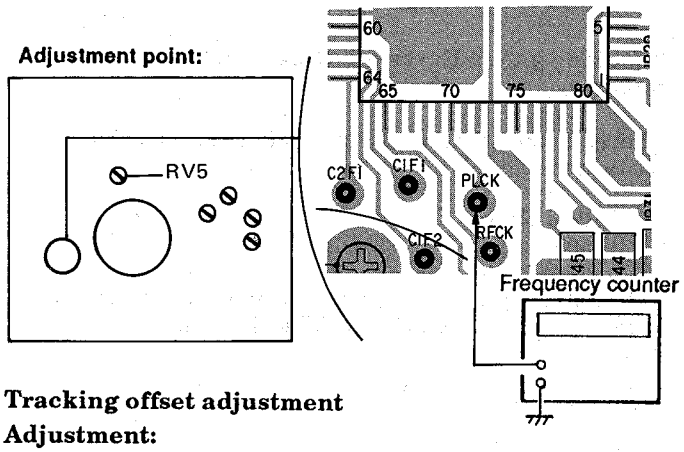
PLL free-run frequency adjustment

Adjustment:

1. Remove the soldering bridge (EFM) from the RF board.
2. Connect the frequency counter to test point (PLCK).
3. Turn the power on and adjust RV5 so that frequency counter reading satisfies the specification.

Adjustable limits: 4.3118 to 4.3318MHz

Adjustment point:

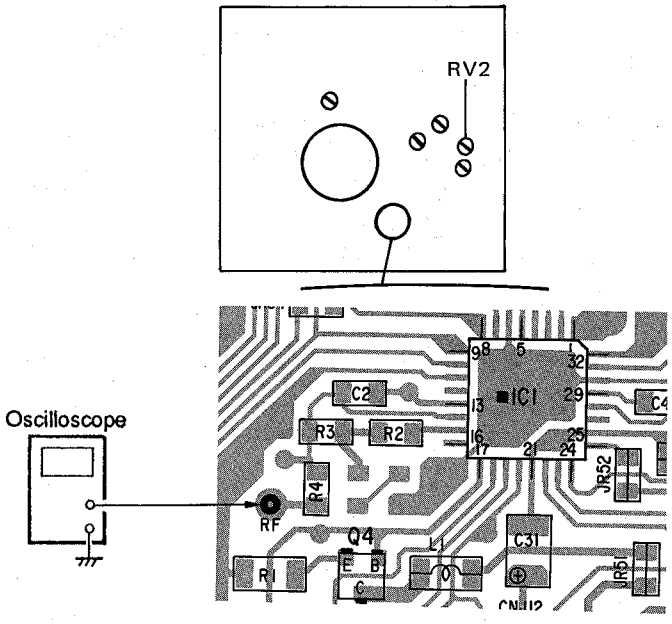


Focus offset adjustment

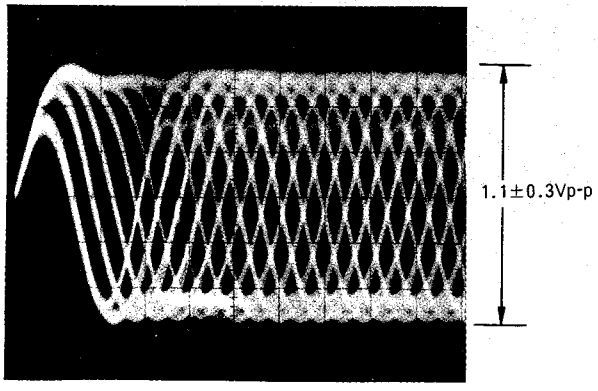
Adjustment:

1. Connect the oscilloscope to test point RF on the RF board.
2. Load a disc and set mode to PLAY.
3. Adjust RV2 so that the waveform on the oscilloscope (eye pattern) is maximum with good shape. "Well-shaped eye pattern" means that the mark " ◇ " is clearly distinguished at the center of the waveform.

Adjustment point: RF board



Volt/div: 200mV
Time/div: 0.5µsec

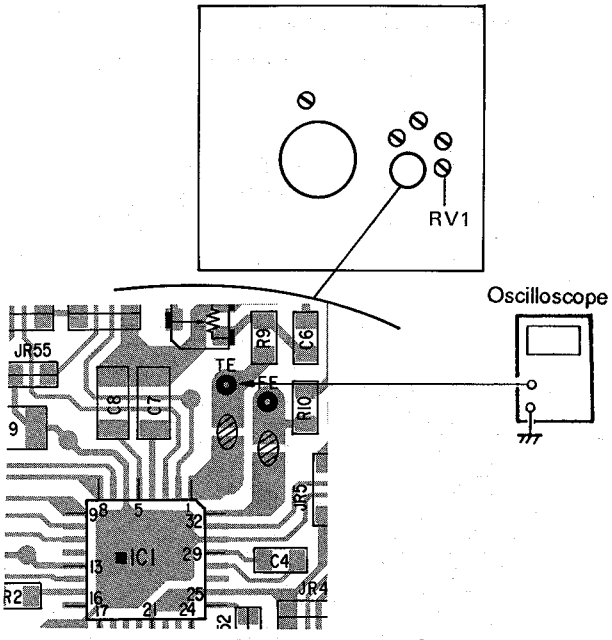


Tracking offset adjustment

Adjustment:

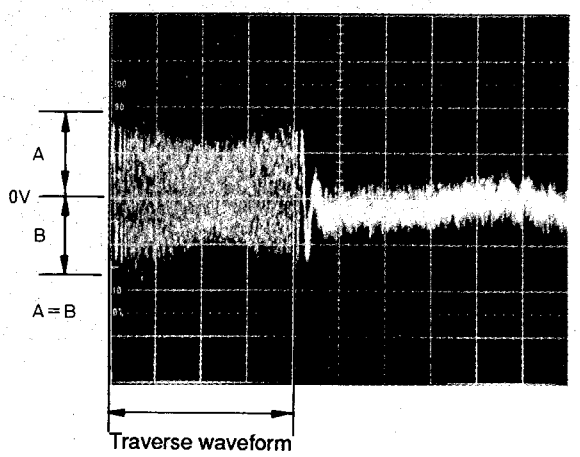
1. Connect the oscilloscope to test point TE on the MD board.
2. Load a disc and set mode to PLAY.
3. Press button ⏮ or ⏭ (◀◀ or ▶▶) and observe the traverse waveform.
4. Adjust RV1 so that the waveform is symmetric when cenetered at the level to be accessed.

Adjustment point: RF board



* Traverse waveform: Tracking error waveform which is observed when the track is traversed.

Volt/div: 0.5V
Time/div: 2msec
Center 0V



Traverse waveform
(100 track jump waveform)

Tracking gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

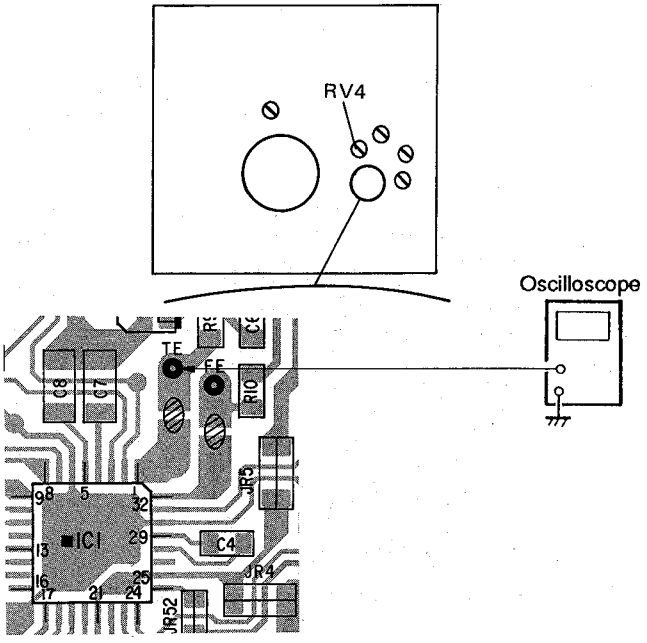
- Optical block
- BF503

Before starting this adjustment, complete the focus offset adjustment and the tracking off set adjustment.

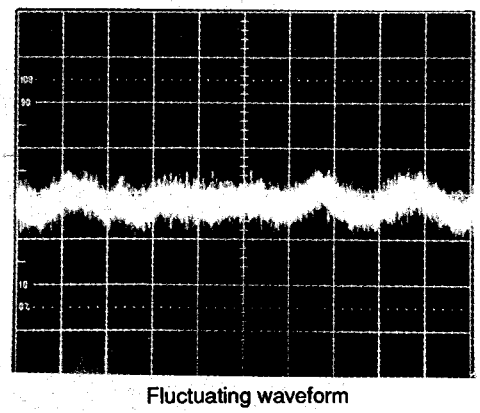
Adjustment:

1. Connect the oscilloscope to test point TE on the main board.
2. Load a disc and set mode to PLAY.
3. Turning RV4 clockwise, from the leftmost position, observe the waveform on the oscilloscope.
   Fix RV4 at the position where the waveform is become stable.

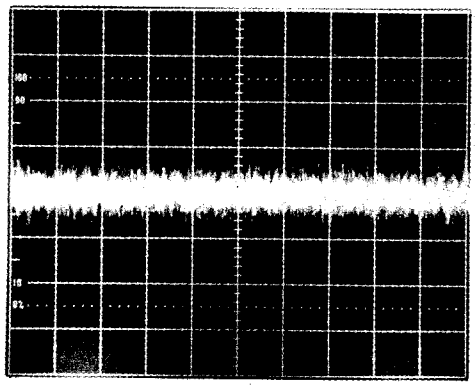
Adjustment point: RF board



Volt/div: 0.5V
Tile/div: 2msec



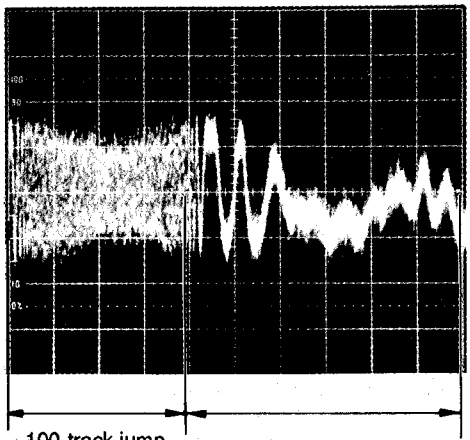
Fluctuating waveform



Stable waveform

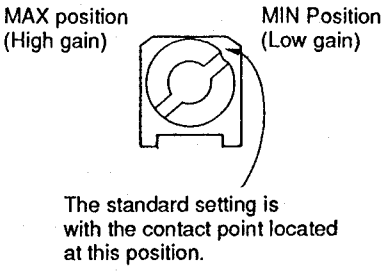
- If the gain is too low

When music is selected by pressing button ⏮ or ⏭ , the tracking jump waveform is not focused completely and the music selection is delayed. (Break function does not work wall because its gain is too low.)



- If the gain is too high

Noise due to scratches and dust is heard and the operation becomes unstable.



– RV4 standard setting –

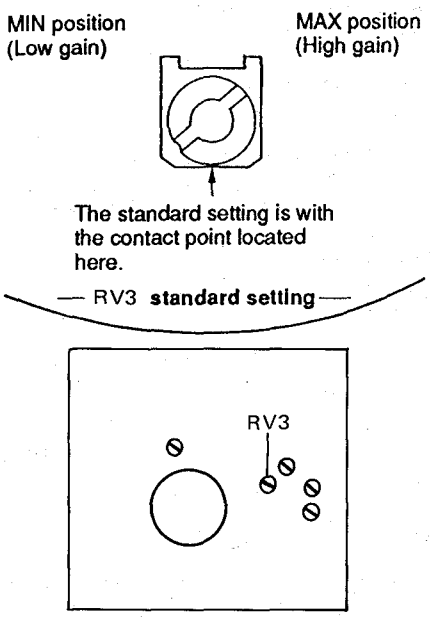
Focus gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

- Optical block
- RV3

Adjustment

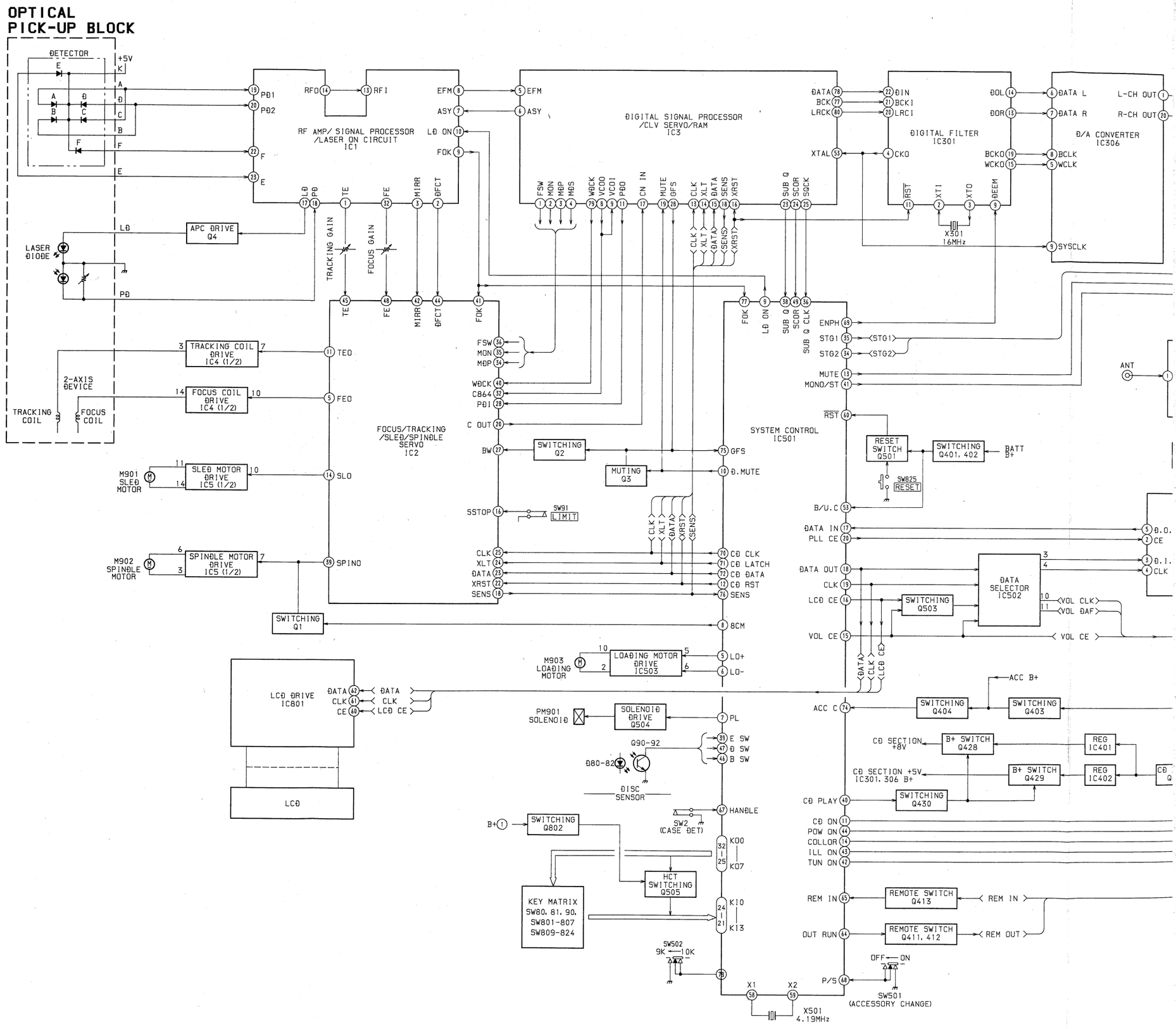
1. Set RV3 to the standard position.
2. Check whether operation noise (white noise type) caused by the double-axis device (lens section of the optical block) is abnormally loud.
   If the operation noise is too loud, turn RV3 slightly counterclockwise.

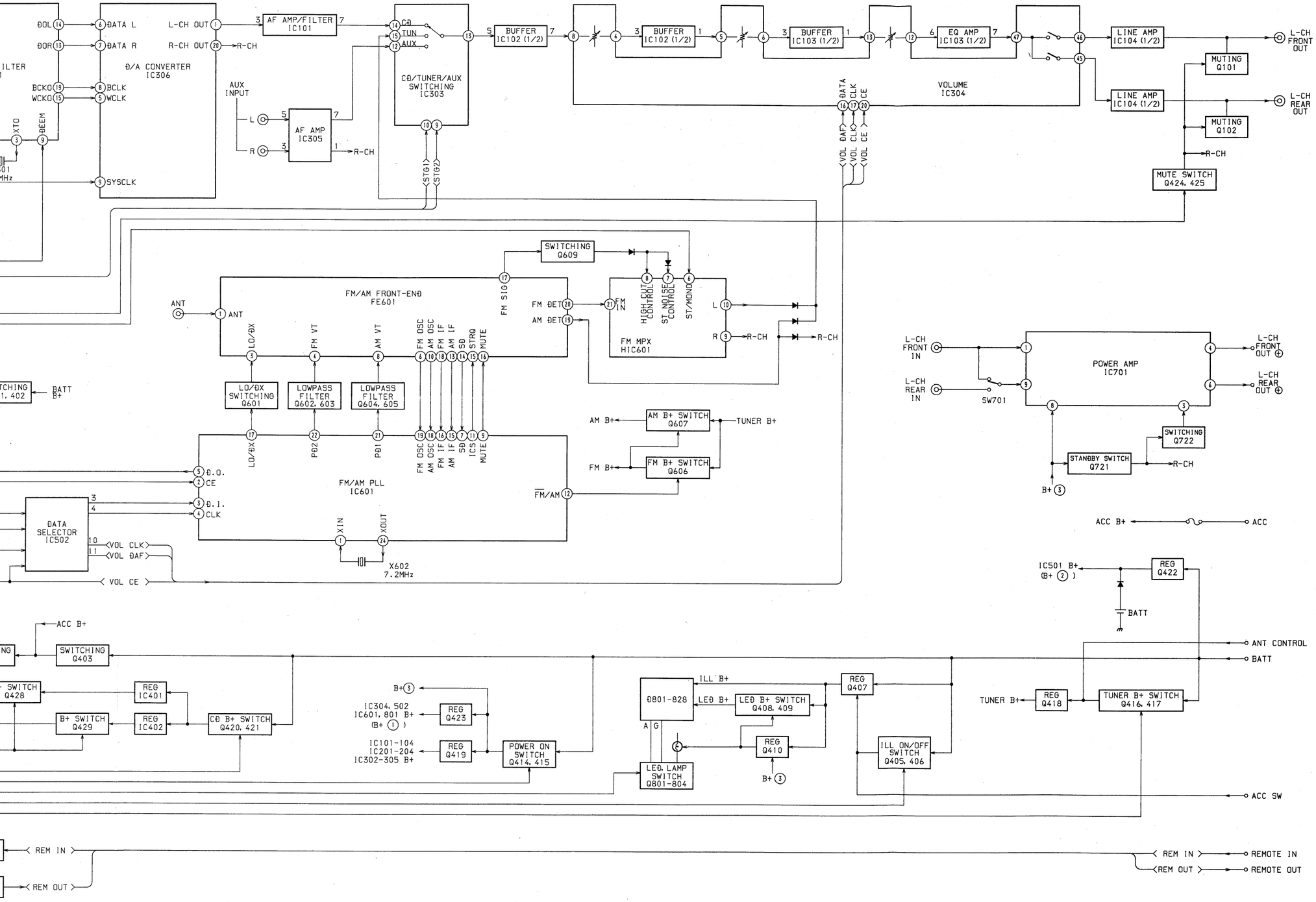


- If the gain is too low:
  Focus does not function and no music is selected.
- If the gain is too high:
  Noise caused by scratches and dust is heard and the operation becomes unstable.

5-1. BLOCK DIAGRAM

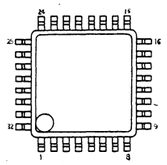
SECTION 5
DIAGRAMS



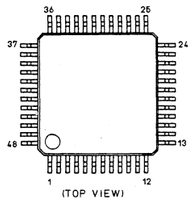

ÐOL
ÐOR
ÐATA L
ÐATA R
Ð/A CONVERTER IC306
L-CH OUT
R-CH OUT
R-CH
BCKO
WCKO
BCLK
WCLK
SYSCLK
XTO
ÐEEM
AF AMP/FILTER IC101
AUX INPUT
L
R
AF AMP IC305
CÐ/TUNER/AUX SWITCHING IC303
CÐ
TUN
AUX
BUFFER IC102 (1/2)
BUFFER IC102 (1/2)
BUFFER IC103 (1/2)
EQ AMP IC103 (1/2)
VOLUME IC304
DATA
CLK
CE
VOL ÐAF
VOL CLK
VOL CE
<STG1>
<STG2>
LINE AMP IC104 (1/2)
LINE AMP IC104 (1/2)
L-CH FRONT OUT
L-CH REAR OUT
MUTING Q101
MUTING Q102
MUTE SWITCH Q424, 425
SWITCHING Q609
FM/AM FRONT-ÐNÐ FE601
ANT
FM SIG
FM ÐET
AM ÐET
FM IN
HIGH CUT CONTROL
ST NOISE CONTROL
ST/MONO
FM MPX HIC601
LO/ÐX
FM VT
AM VT
FM OSC
AM OSC
FM IF
AM IF
SD
STRQ
MUTE
LO/ÐX SWITCHING Q601
LOWPASS FILTER Q602, 603
LOWPASS FILTER Q604, 605
PÐ2
PÐ1
AM B+
FM B+
AM B+ SWITCH Q607
FM B+ SWITCH Q606
TUNER B+
FM/AM PLL IC601
Ð.O.
CE
Ð.I.
CLK
XIN
XOUT
X602 7.2MHz
ÐATA SELECTOR IC502
VOL CLK
VOL ÐAF
VOL CE
L-CH FRONT IN
L-CH REAR IN
SW701
POWER AMP IC701
L-CH FRONT OUT
L-CH REAR OUT
STANÐBY SWITCH Q721
SWITCHING Q722
B+
ACC B+
ACC
IC501 B+ (B+ 2)
REG Q422
BATT
ANT CONTROL
BATT
ACC SW
TUNER B+
REG Q418
TUNER B+ SWITCH Q416, 417
SWITCHING Q403
REG IC401
REG IC402
CÐ B+ SWITCH Q420, 421
B+ SWITCH Q429
B+ SWITCH Q428
B+3
IC304, 502 IC601, 801 B+ (B+ 1)
IC101-104 IC201-204 IC302-305 B+
REG Q423
REG Q419
POWER ON SWITCH Q414, 415
Ð801-828
ILL B+
LEÐ B+
LEÐ B+ SWITCH Q408, 409
REG Q407
REG Q410
ILL ON/OFF SWITCH Q405, 406
LEÐ LAMP SWITCH Q801-804
A
G
REM IN
REM OUT
REMOTE IN
REMOTE OUT

5-2. SEMICONDUCTOR LEAD LAYOUTS

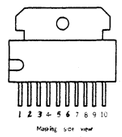
CXA1081Q



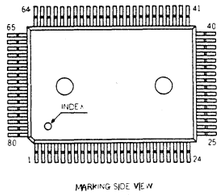
CXA1082BQ



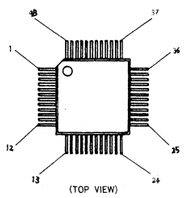
LB1645N



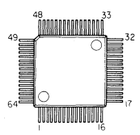
CXD1167Q
UPD75516GF-107-3B9



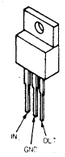
LC7537AN



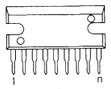
LC7582



RC78M05FA
RC7808FA



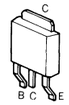
TDA1519A



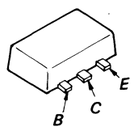
DTA124EK
DTC114EK
DTC124EK
DTC143TU
DTC144EK
DTC314TKH04
DTD113EK
2SB624-BV345
2SC2412K

PN147-LF

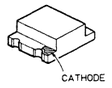
2SB1184-F5-R
2SD1760F5-Q



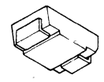
2SB1115A
2SD1664-R



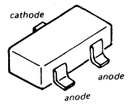
CL-55Y/PG-D



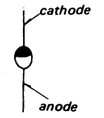
LN1251C



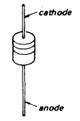
MA152WK



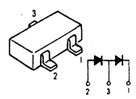
PZ427



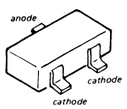
RD3.9ES-B2
RD4.3ES-B2
RD5.6ES-B2
RD6.2ES-L1
RD8.2ES-B3
RD9.1ES-B2
RD9.1ES-B3
RD16ES-B3
1SS119



1SS226



1S2836



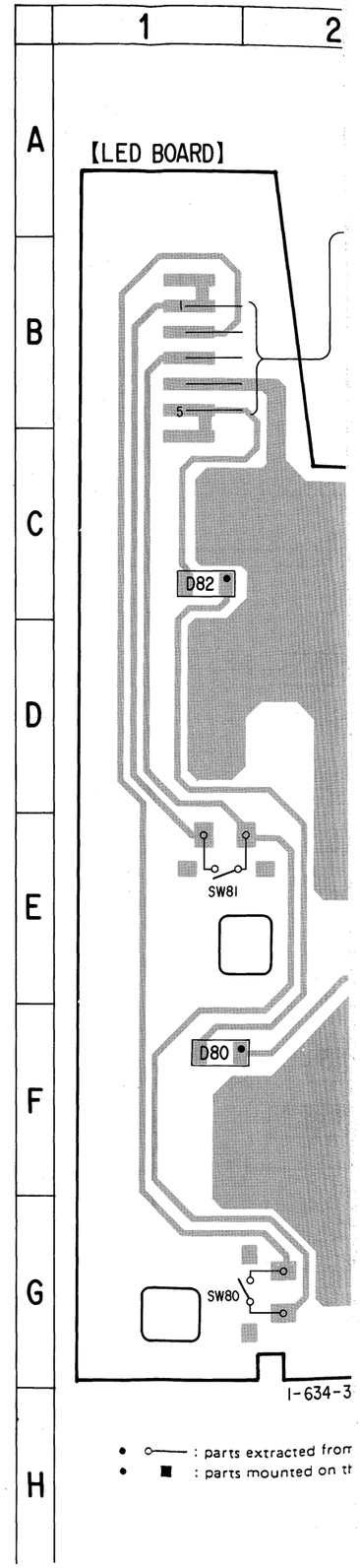
• SEMICONDUCTOR LOCATION (MD Section)

Ref. No.	Location
D80	F-1
D81	E-3
D82	C-1
IC1	F-11
IC2	D-11
IC3	E-7
IC4	B-11
IC5	B-10
Q1	E-10
Q2	C-7
Q3	C-7
Q4	G-10
Q90	F-5
Q91	F-4
Q92	D-4

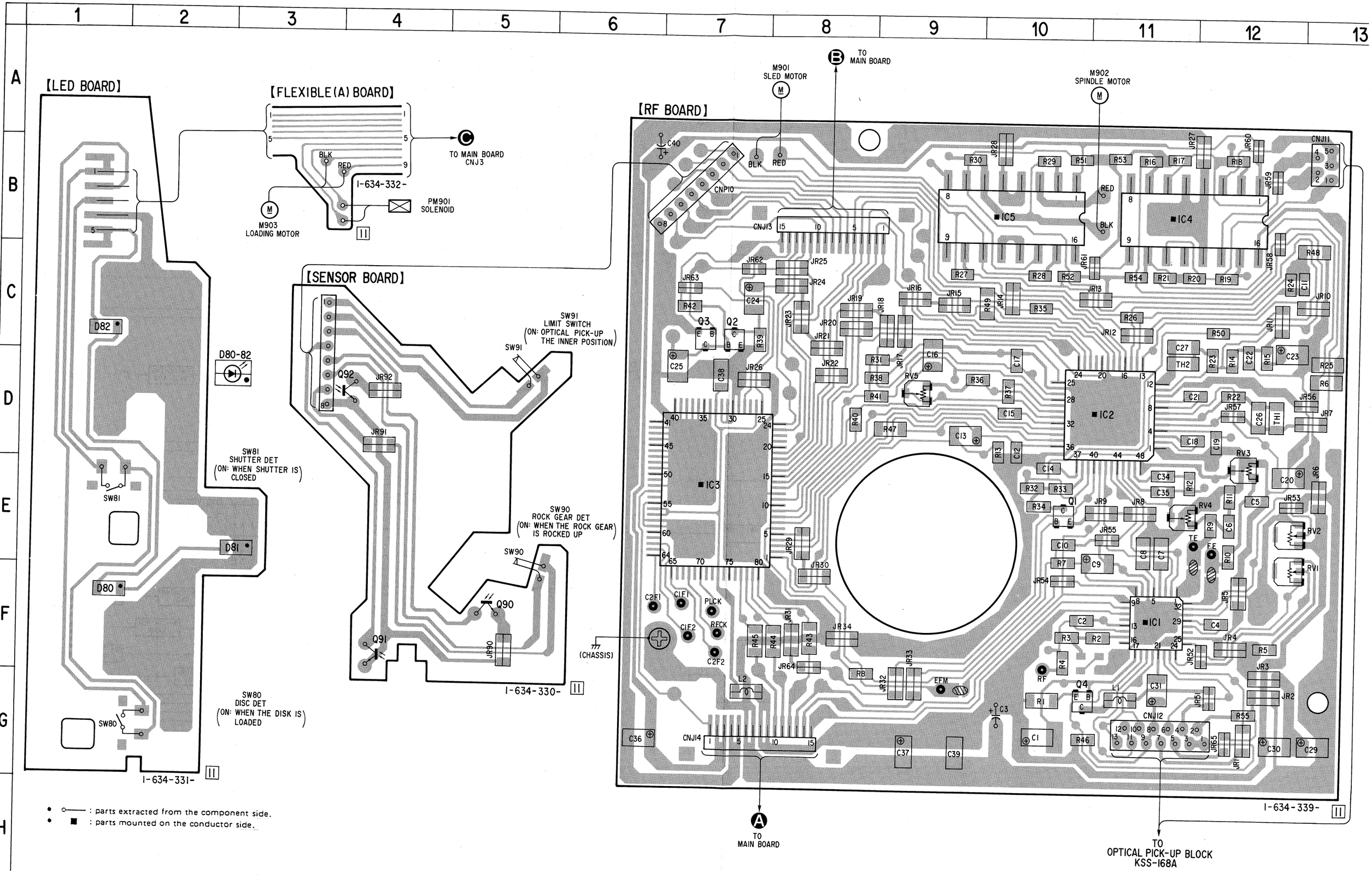
• SEMICONDUCTOR LOCATION (MAIN Section)

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	F-8	D812	B-20	Q402	F-10
D102	F-8	D813	B-20	Q403	D-13
D103	H-8	D814	B-21	Q404	D-13
D201	E-8	D815	B-22	Q405	E-19
D202	E-8	D816	B-23	Q406	E-19
D203	F-8	D817	B-20	Q407	E-19
D301	E-7	D818	B-20	Q408	J-9
D402	F-10	D819	B-21	Q409	K-10
D403	E-13	D820	B-22	Q410	E-19
D404	E-13	D821	B-23	Q411	E-16
D405	D-9	D822	C-19	Q412	E-12
D406	D-9	D823	C-20	Q413	E-12
D407	D-8	D824	C-21	Q414	E-17
D408	E-11	D825	C-21	Q415	E-18
D409	D-11	D826	C-22	Q416	E-10
D410	E-10	D827	C-22	Q417	D-10
D411	E-8	D828	C-23	Q418	E-18
D412	F-10	D829	B-6	Q419	E-8
D413	F-10			Q420	E-22
D414	E-8	IC101	I-5	Q421	E-5
D415	H-10	IC102	G-7	Q422	F-10
D416	E-5	IC103	G-7	Q423	E-20
D501	J-8	IC104	G-9	Q424	E-8
D502	J-8	IC201	H-5	Q425	F-8
D503	J-8	IC202	F-7	Q428	E-23
D504	J-8	IC203	F-7	Q429	E-5
D505	K-7	IC204	F-9	Q430	F-5
D506	F-4	IC301	J-5	Q501	J-19
D507	F-5	IC302	G-9	Q502	K-23
D509	J-8	IC303	F-6	Q503	K-7
D510	E-5	IC304	G-21	Q504	F-5
D511	E-5	IC305	D-6	Q505	I-21
D601	I-12	IC306	J-5	Q601	F-13
D602	I-11	IC401	D-6	Q602	F-13
D603	I-11	IC402	D-5	Q603	G-12
D604	I-11	IC501	I-9	Q604	G-13
D721	H-2	IC502	J-21	Q605	G-13
D801	A-15	IC503	F-4	Q606	G-12
D802	A-16	IC601	J-11	Q607	H-12
D803	A-17	IC701	H-3	Q609	J-13
D804	C-15	IC751	H-1	Q721	J-2
D805	C-16	IC801	B-11	Q722	J-2
D806	C-17			Q723	I-2
D807	C-18	Q101	F-9	Q801	B-10
D808	C-19	Q102	F-9	Q802	B-10
D809	A-22	Q201	E-9	Q803	B-6
D810	A-22	Q202	E-9	Q804	A-6
D811	A-23	Q401	F-10		

5-4. PRINTED WIRING BOARDS (



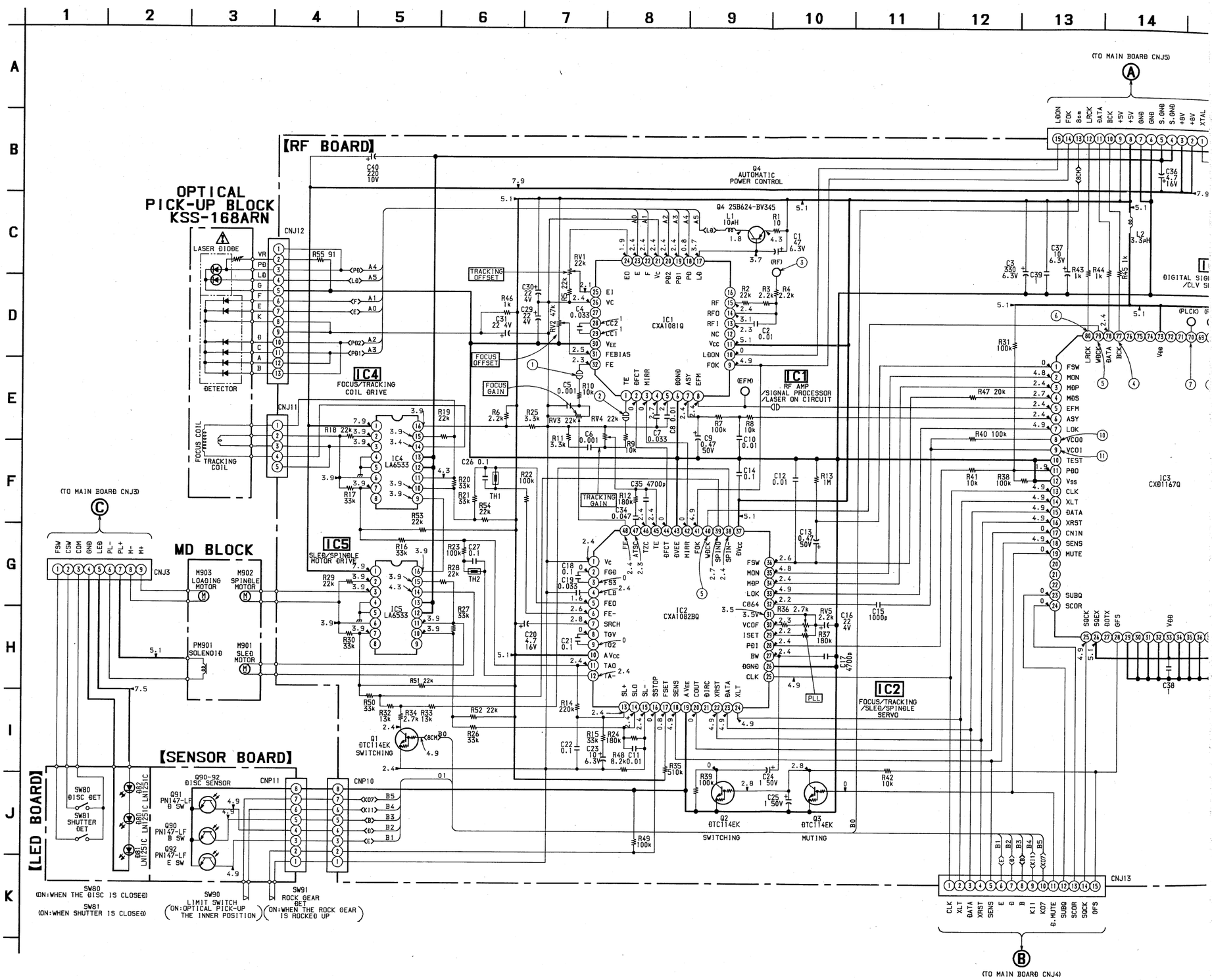
• ○—— : parts extracted from
• ■ : parts mounted on th

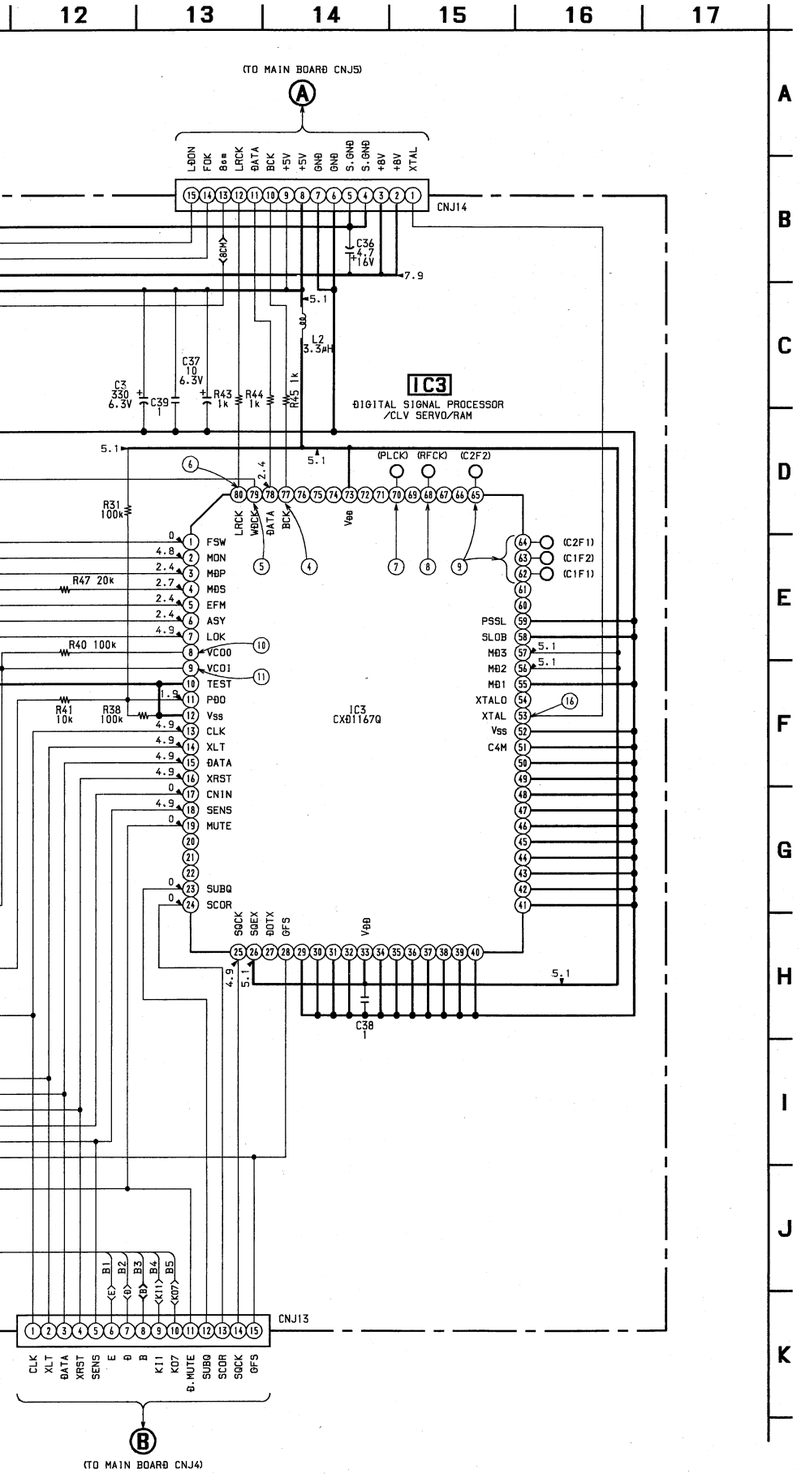


• ○—— : parts extracted from the component side.
• ■ : parts mounted on the conductor side.

5-4. SCHEMATIC DIAGRAM (MD Section)

- See page 30 for IC BLOCK DIAGRAMS.
- See page 33 for WAVEFORMS.

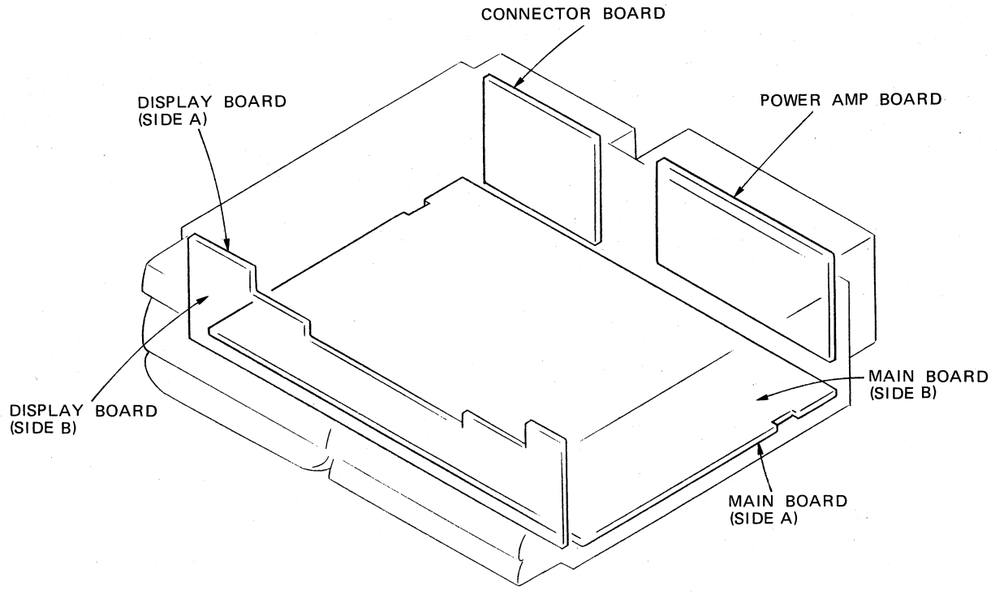




Note: (MD SECTION)

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- ——— : B+ lines.
- Power voltage is dc 14.4V dc and fed with regulated dc power supply from battery, accesory terminals..
- Voltage and waveforms are dc with respect to ground under no signal conditions.
  no mark : CD PLAY
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

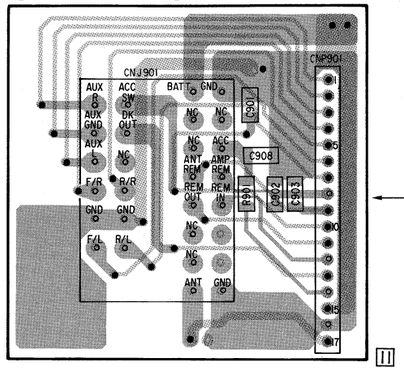
5-5. CIRCUIT BOARDS LOCATION



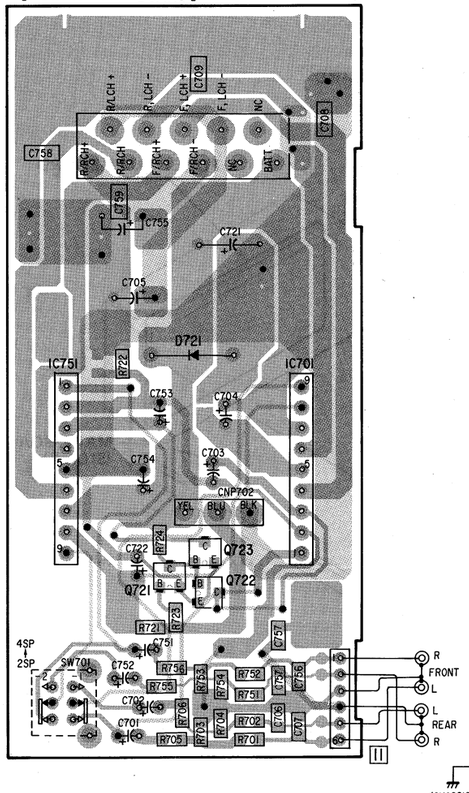
5-6. PRINTED WIRING BOARDS (MAIN Section)

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

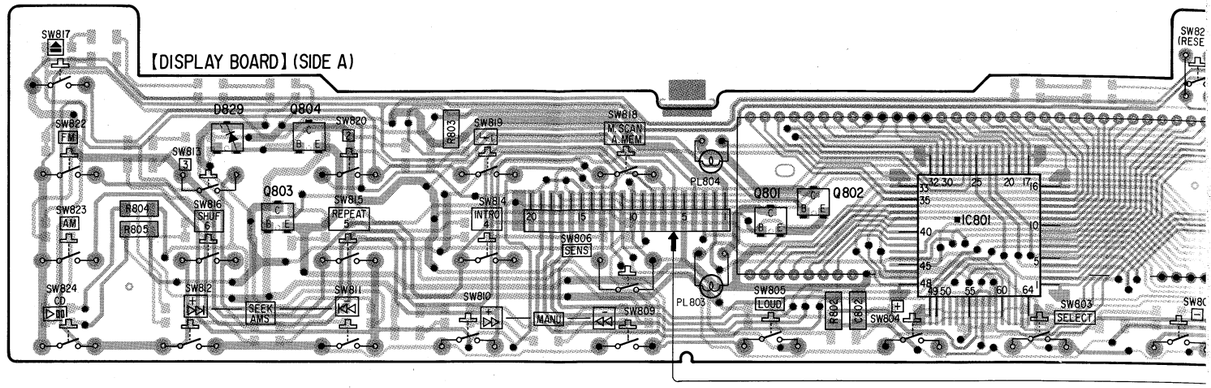
【CONNECTOR BOARD】



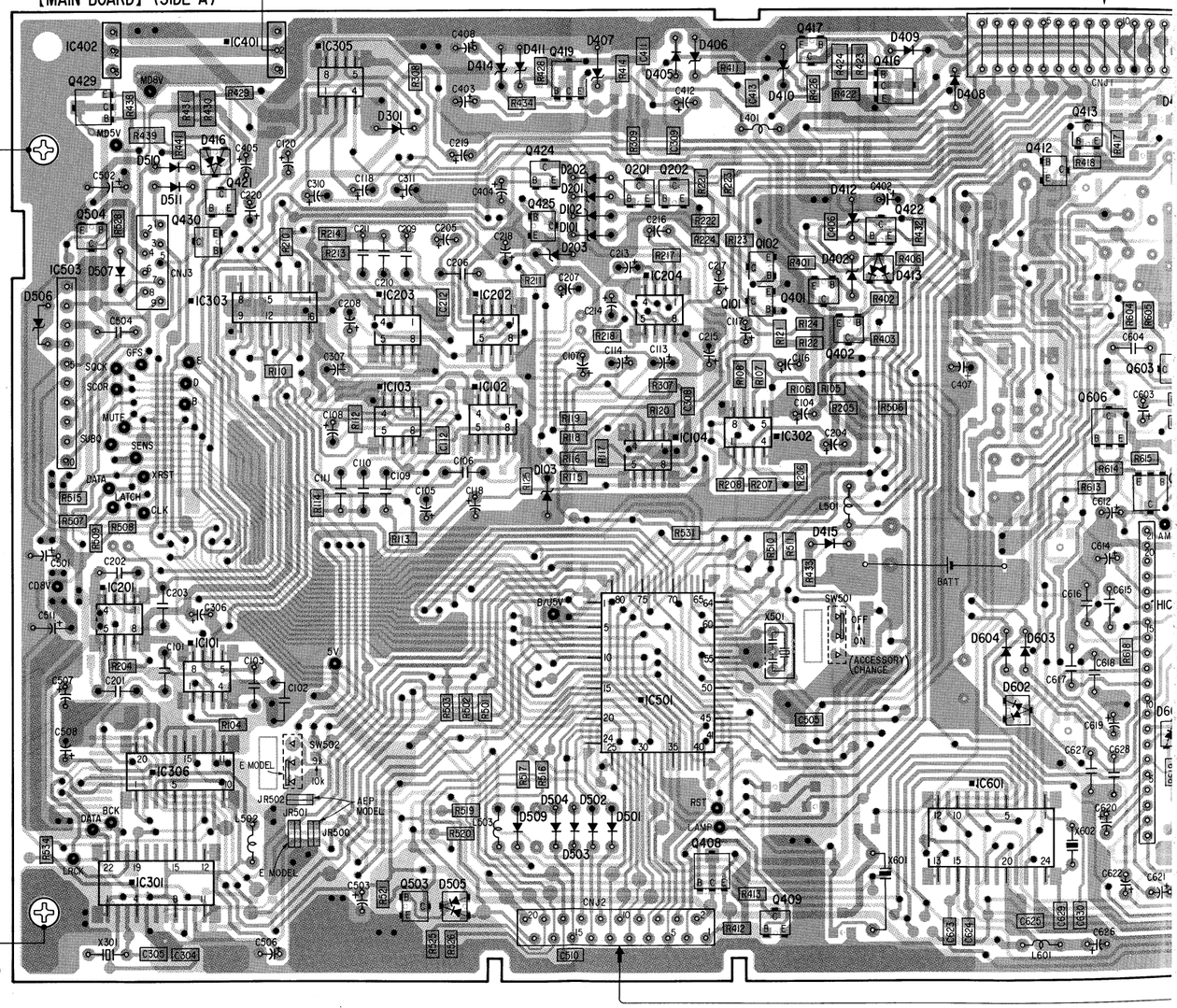
【POWER AMP BOARD】



【DISPLAY BOARD】(SIDE A)

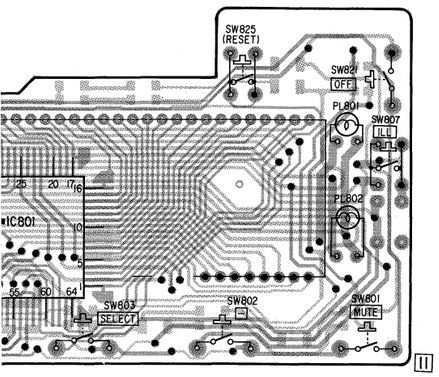


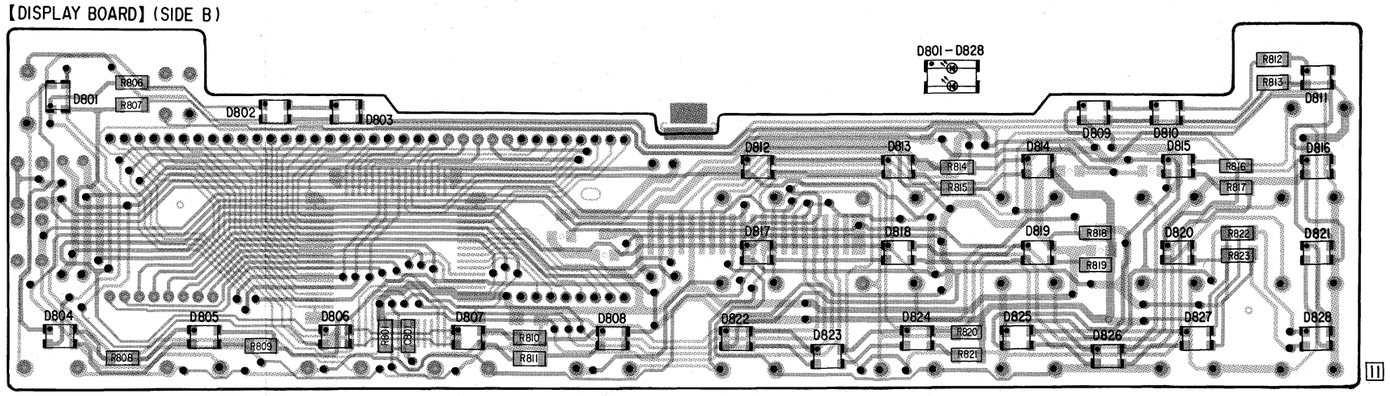
【MAIN BOARD】(SIDE A)



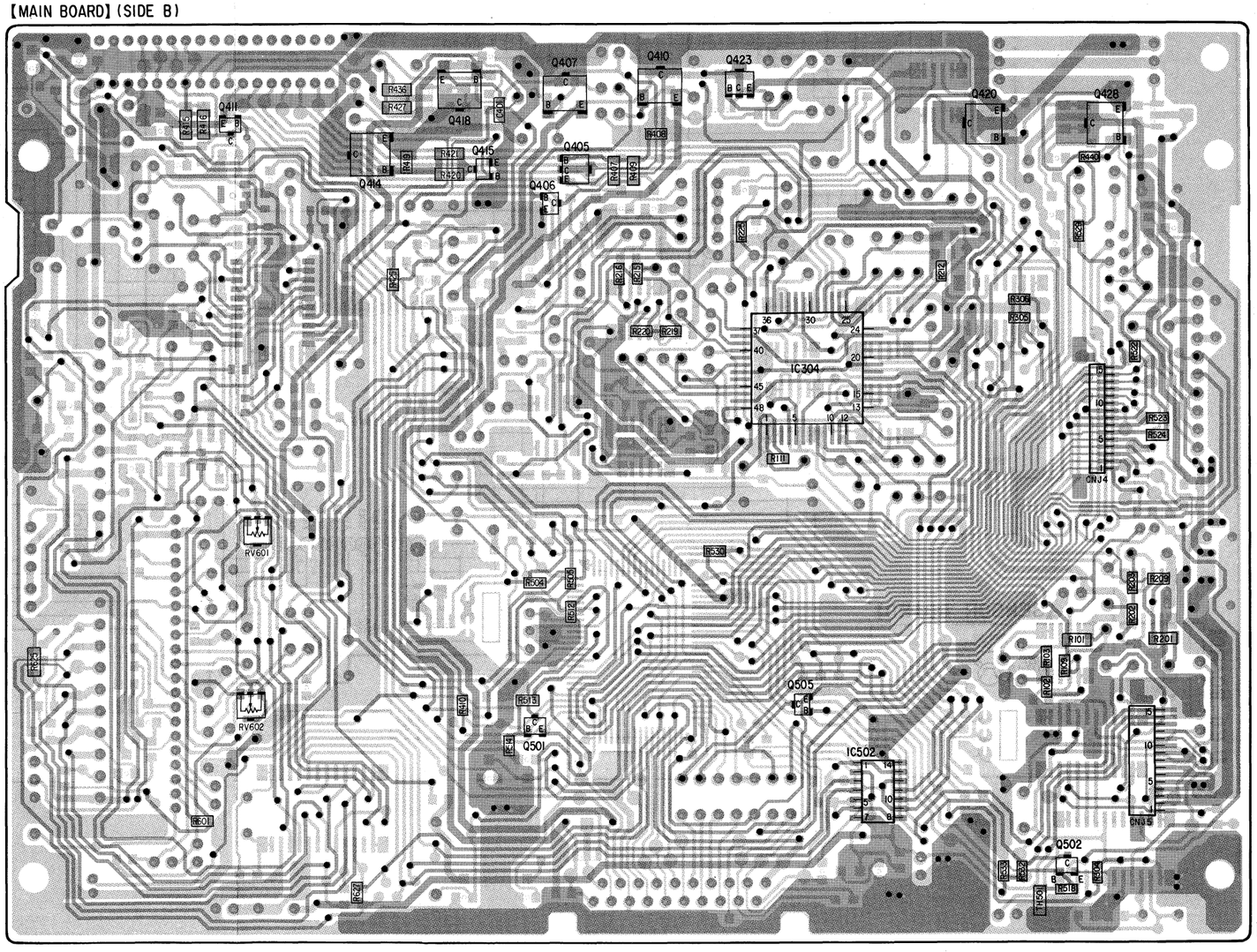
11	12	13	14	15	16	17	18	19	20	21	22	23	24

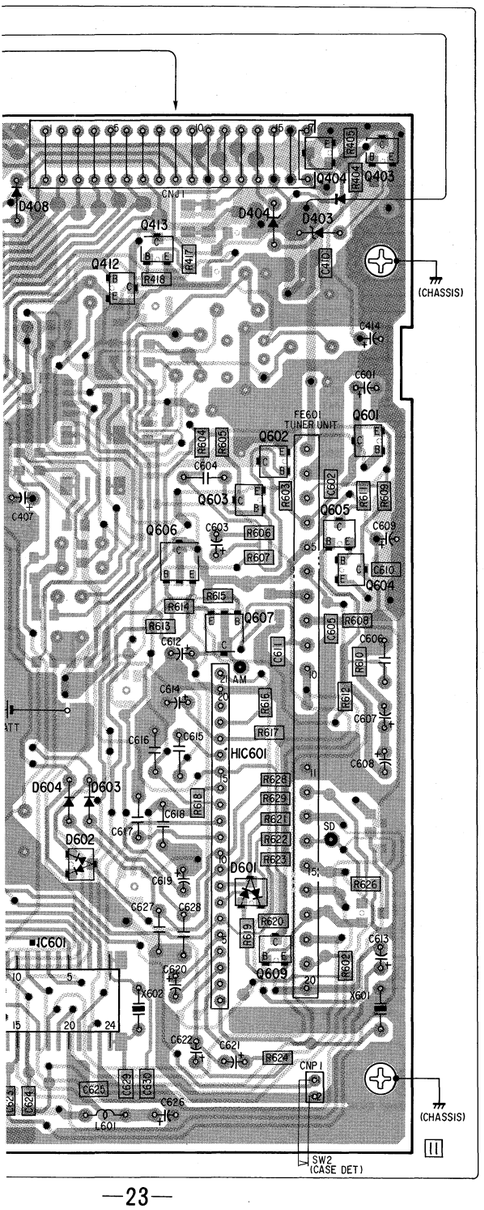
【DISPLAY BOARD】(SIDE B)





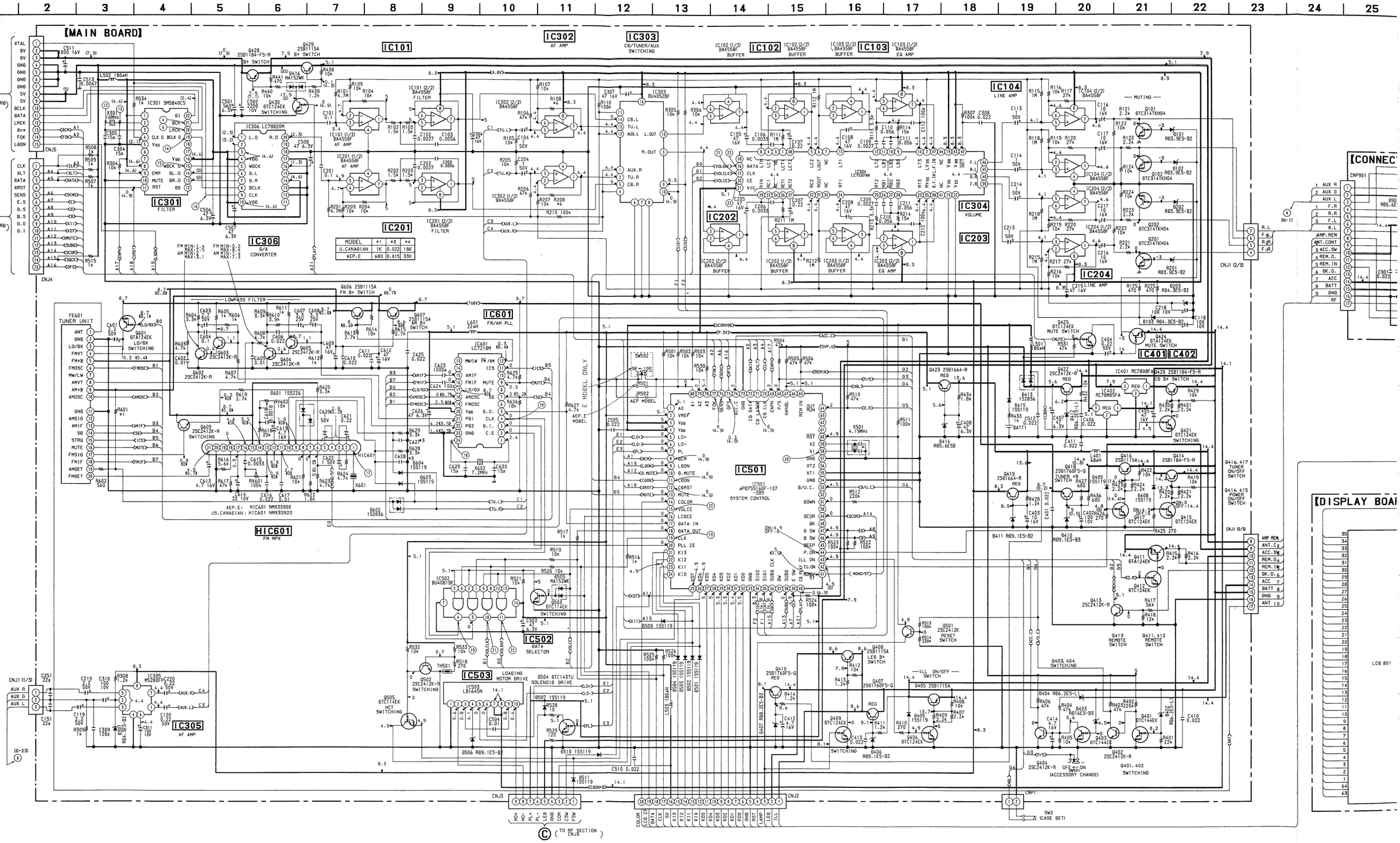
【MAIN BOARD】(SIDE B)

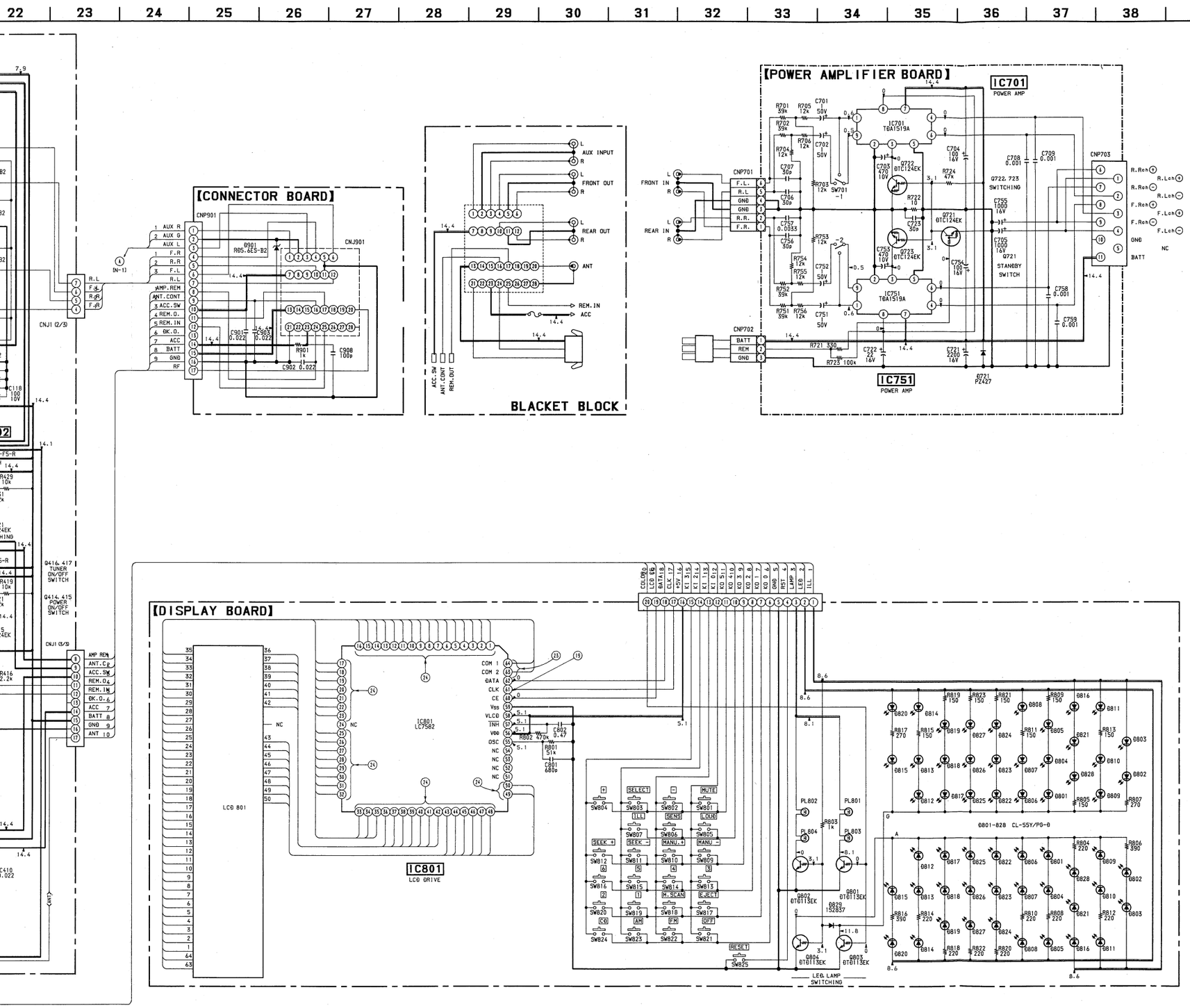




5-7. SCHEMATIC DIAGRAM (MAIN Section)

- See page 30 for IC BLOCK DIAGRAMS.
- See page 33 for WAVEFORMS.

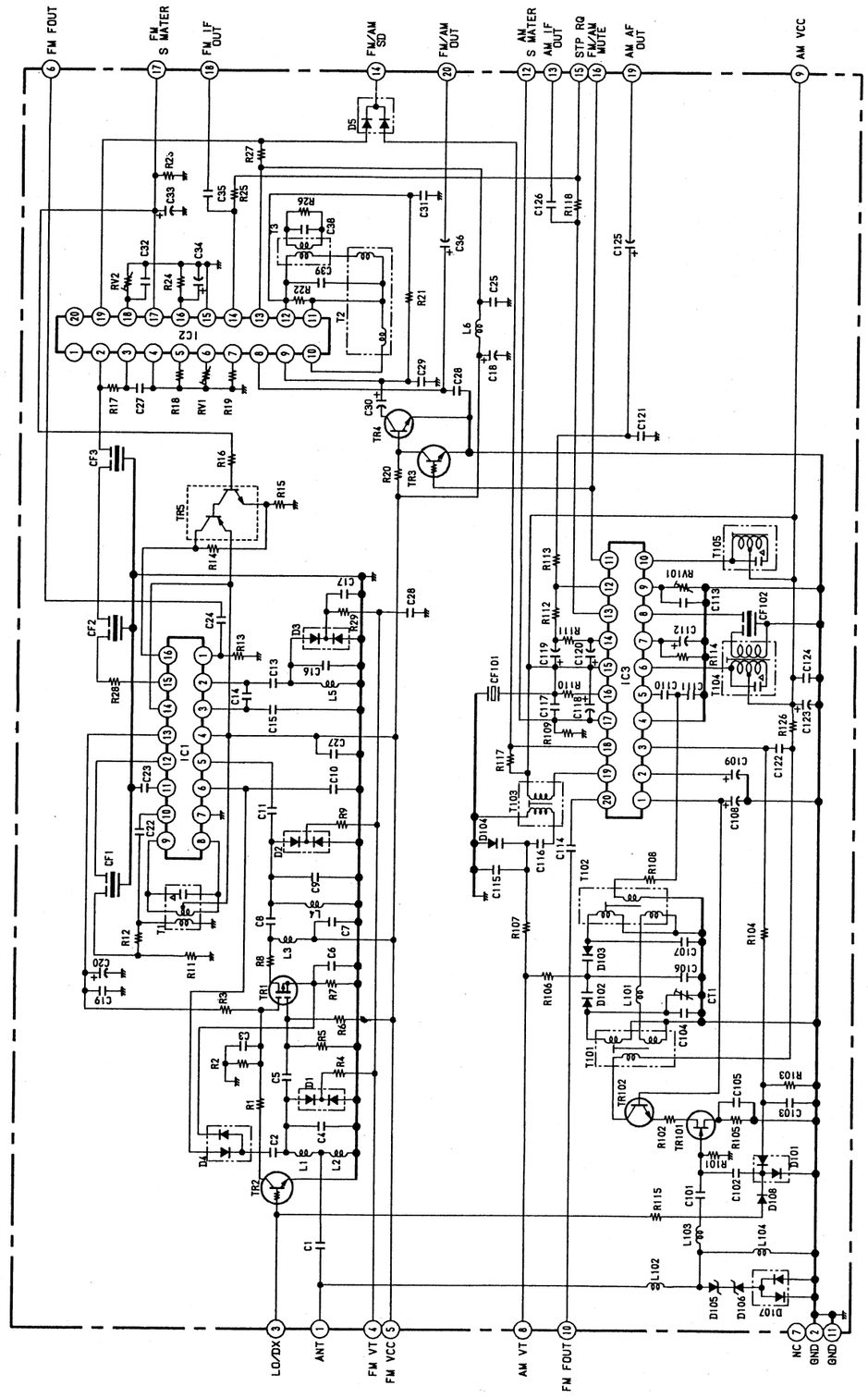




Note: (Main SECTION)

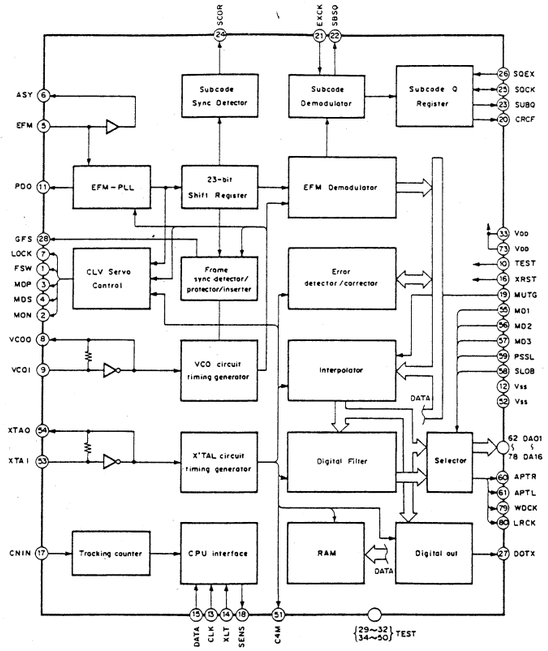
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.
- △ : internal component.
- ——— : B+ lines.
- Power voltage is dc 14.4V dc and fed with regulated dc power supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground under no signal conditions.
  no mark : FM
  ( ) : CD PLAY
  《 》: AM
- Voltages are taken with a VOM. (input impedance 10 MΩ) Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ⇶ : CD
  ⇶ : AUX

5-8. SCHEMATIC DIAGRAM (TUNER Section)

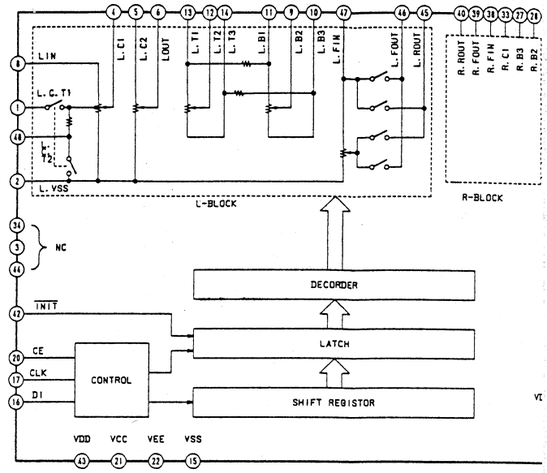


5-9. IC BLOCK DIAGRAM

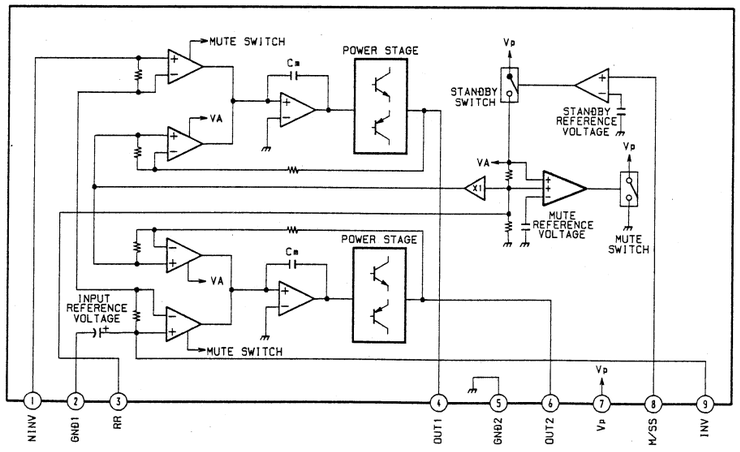
● **IC3**
CXD1167Q



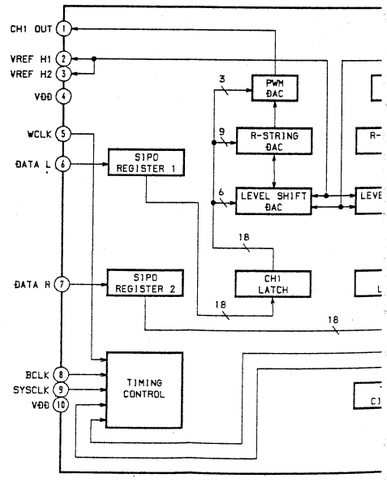
● **IC304**
LC7537AN

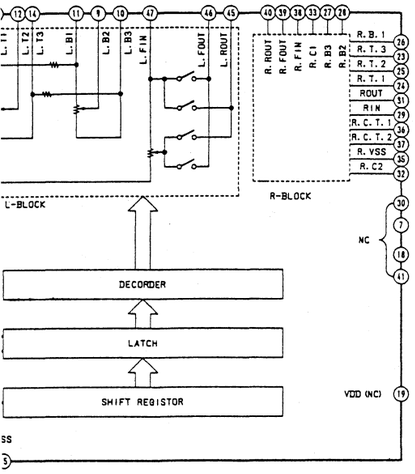


● **IC701, 751**
TDA1519A

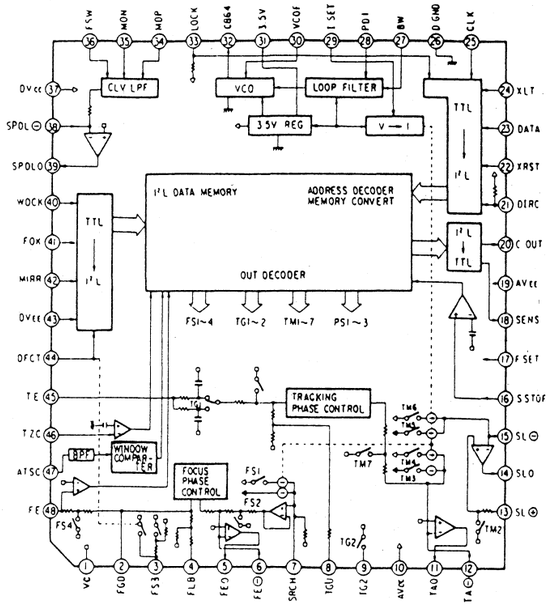


● **IC306**
LC78820

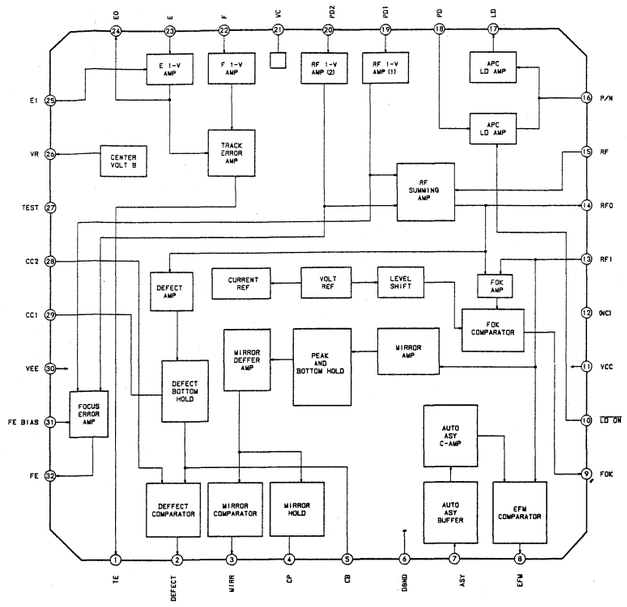




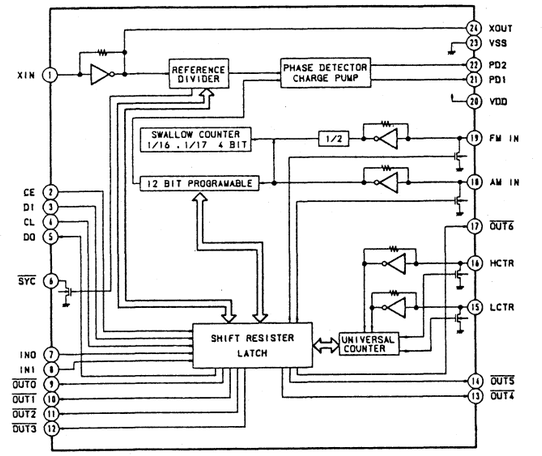
● **IC2**
CXA1082BQ



● **IC1**
CXA1081Q

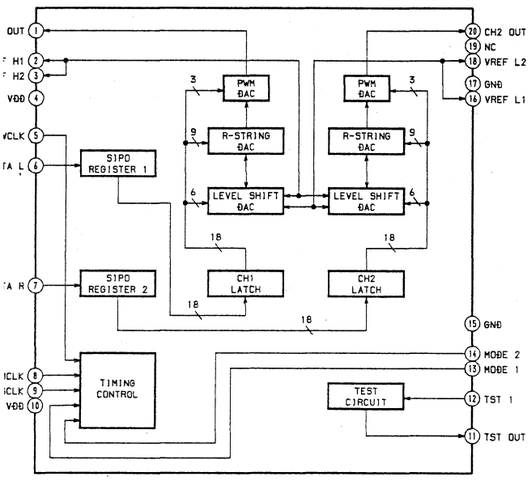


● **IC601**
LC7218M

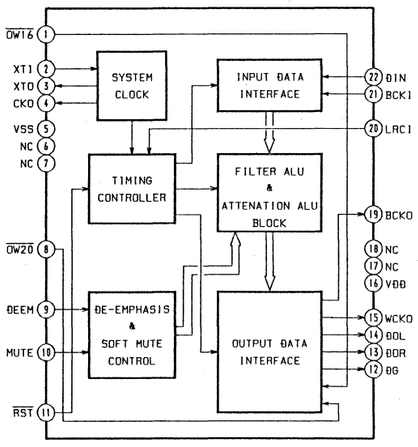


C-SV-IC-CXA1081Q
0.5 FOR A4

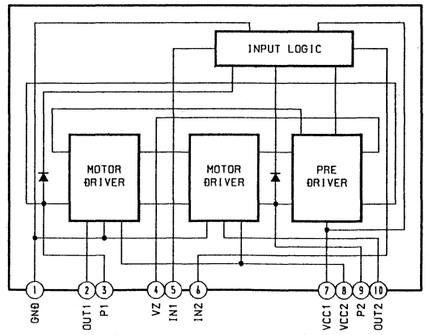
IC306
C78820



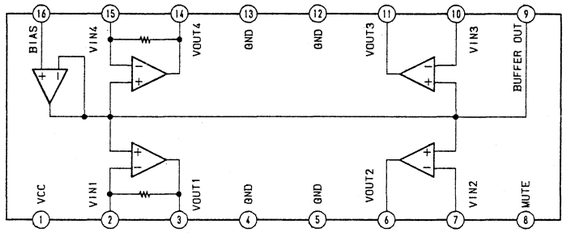
● **IC301**
SM5840CS



● **IC503**
LB1645N

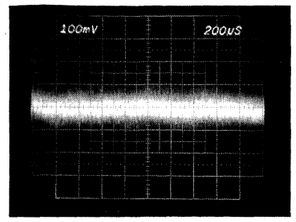


● **IC4. 5**
LA6533

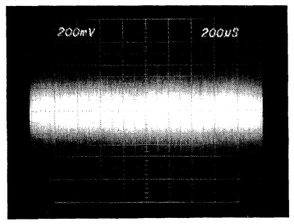


5-10. WAVEFORMS

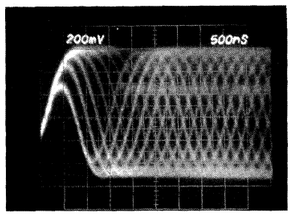
①



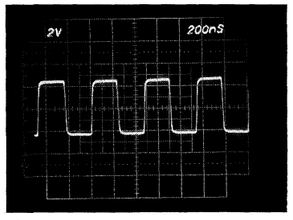
②



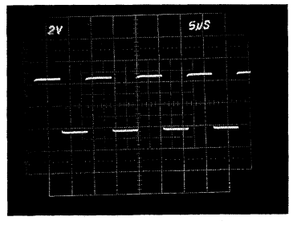
③



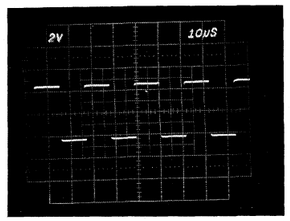
④



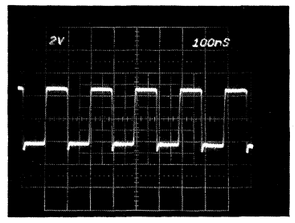
⑤



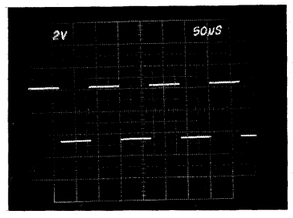
⑥



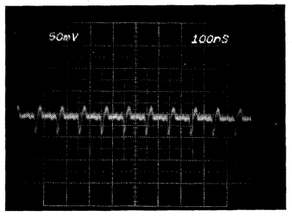
⑦



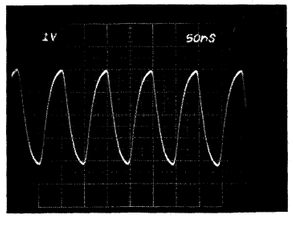
⑧



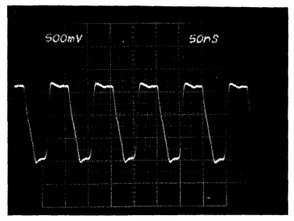
⑨



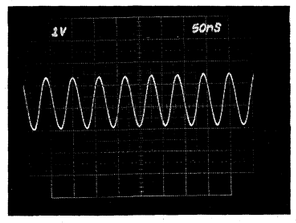
⑩



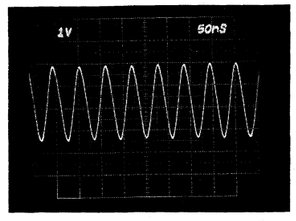
⑪



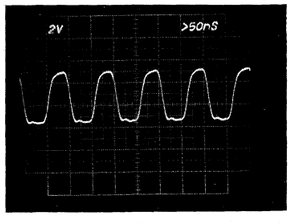
⑫



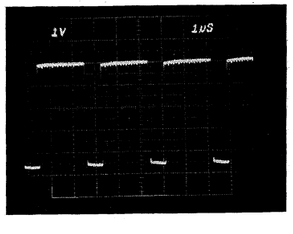
⑬



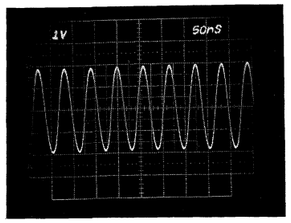
⑭



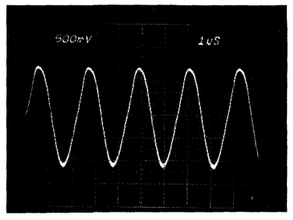
⑮



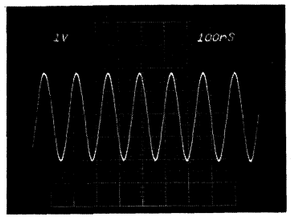
⑯



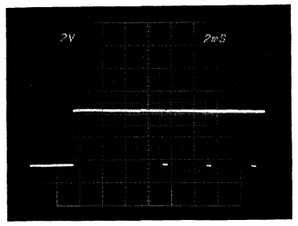
⑰



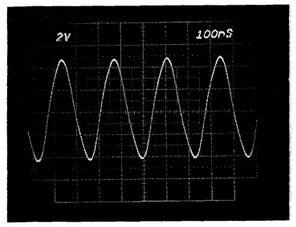
⑱



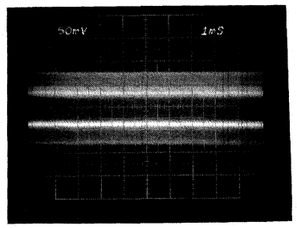
⑲



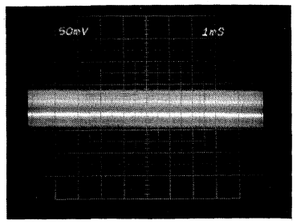
⑳



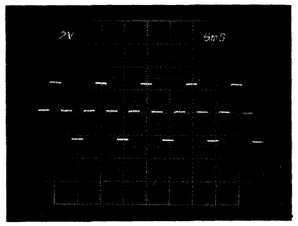
㉑



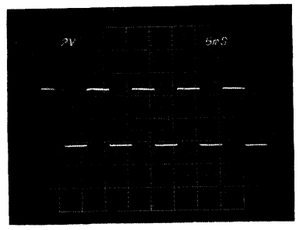
㉒



㉓



㉔



SECTION 6
EXPLODED VIEWS

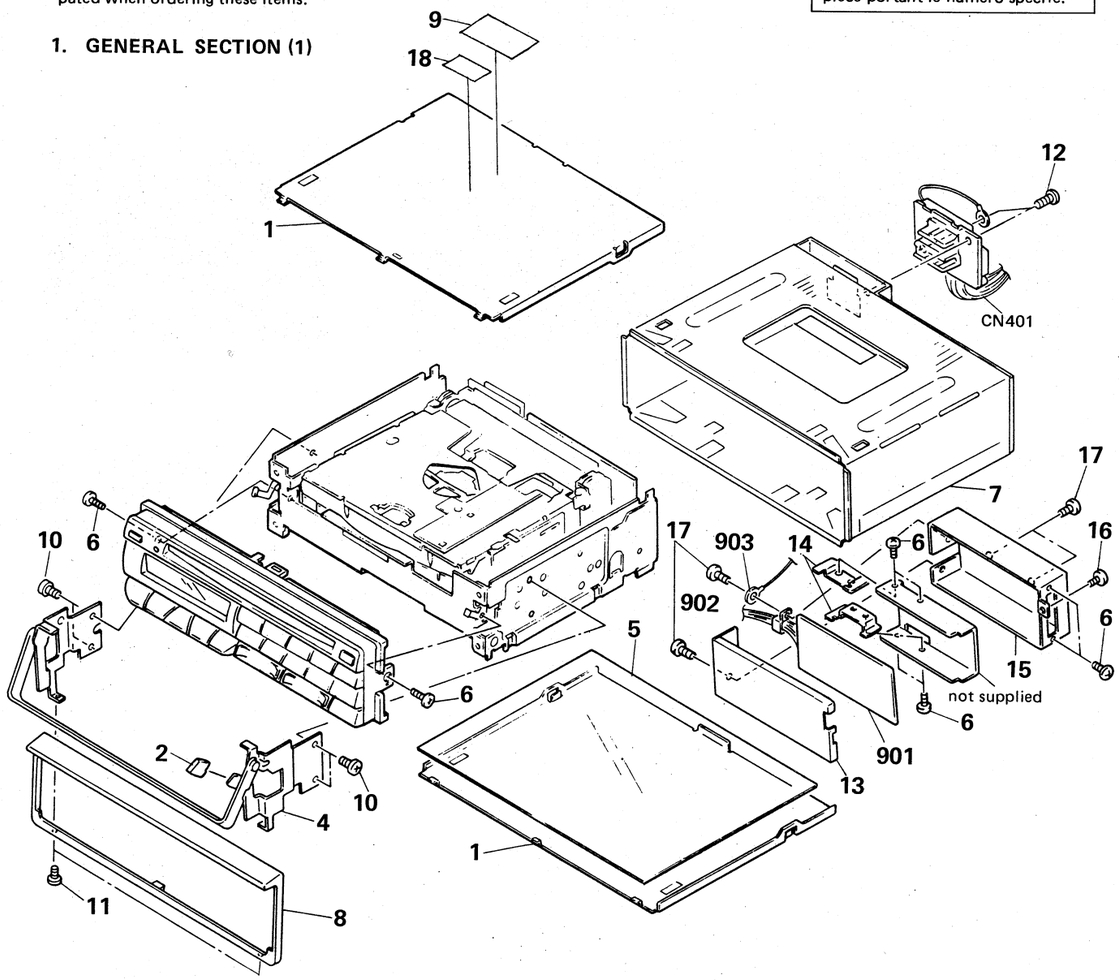
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

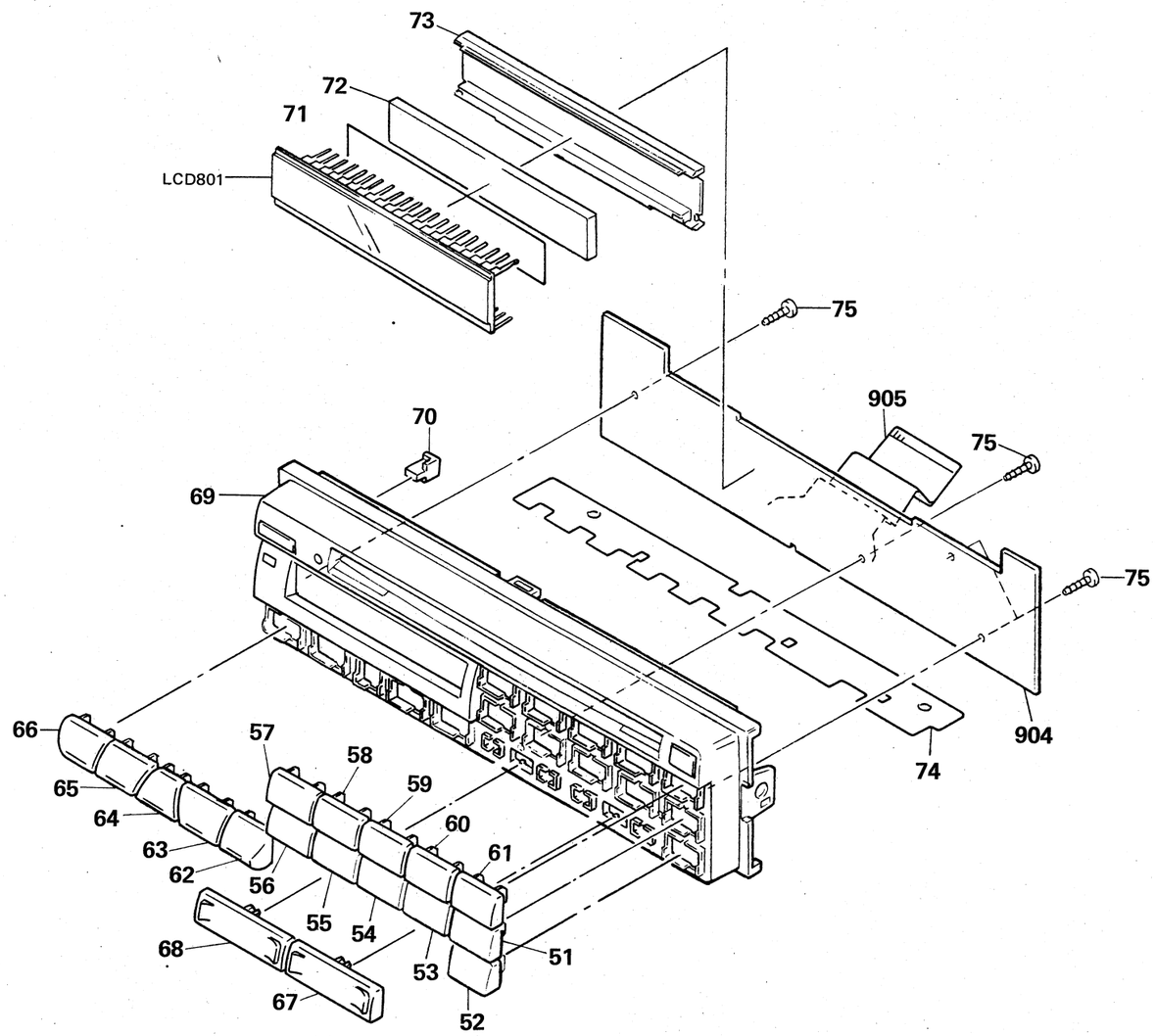
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

1. GENERAL SECTION (1)



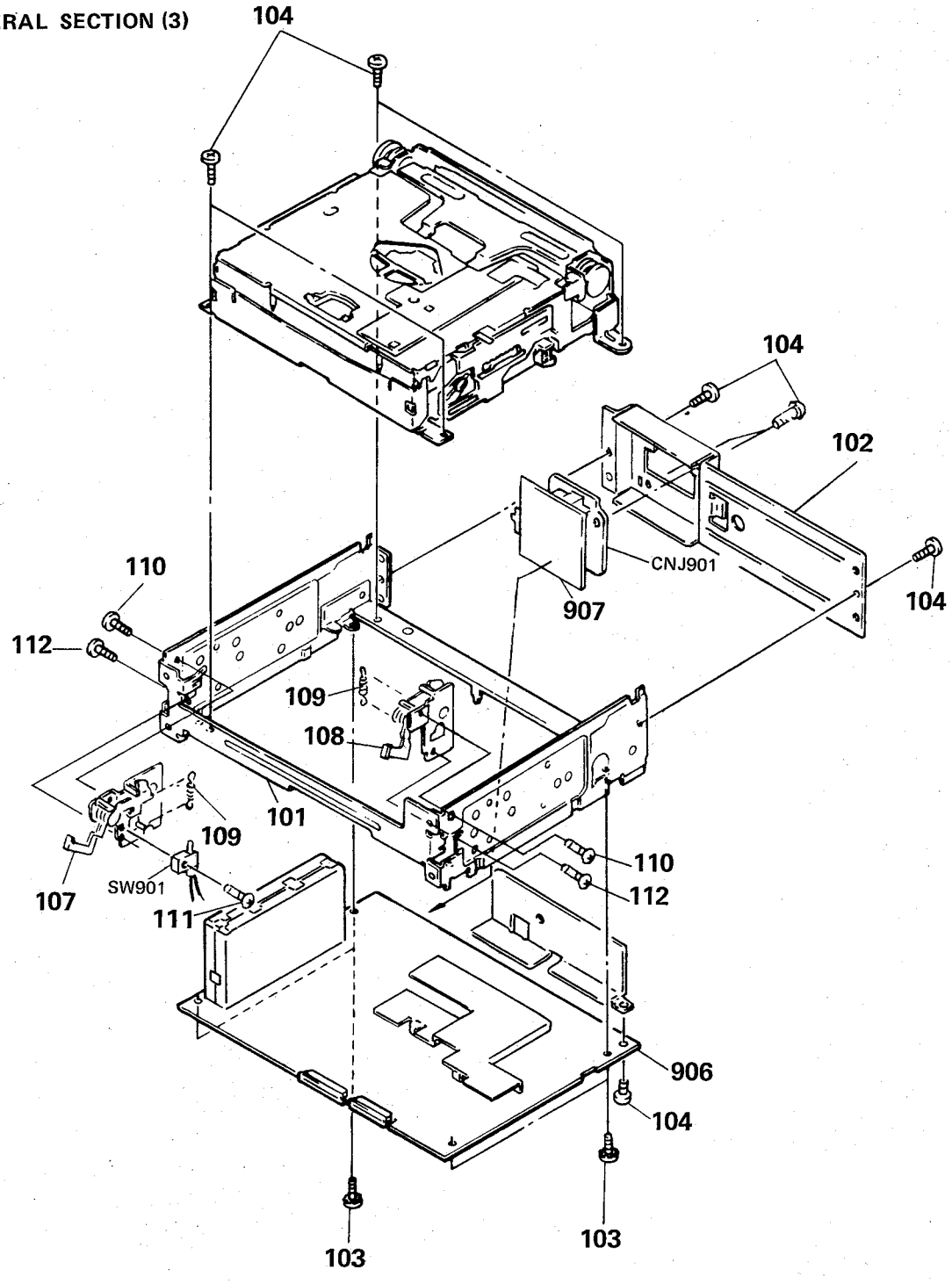
No.	Part No.	Description	Remarks
1	*3-355-249-01	COVER	
2	3-344-526-02	BUTTON (RELEASE)	
4	X-3344-508-1	HANDLE ASSY	
5	*3-355-254-01	SHEET, INSULATING	
6	7-621-770-67	SCREW +PTT 2.6X6 (S)	
7	*X-3339-431-1	BRACKET ASSY	
8	3-344-564-01	FRAME, ORNAMENTAL	
9	*3-355-274-01	(US).....LABEL, MODEL NUMBER	
	*3-355-275-01	(Canadian)...LABEL, MODEL NUMBER	
	*3-355-276-01	(AEP)·····LABEL, MODEL NUMBER	
	*3-355-278-01	(E).....LABEL, MODEL NUMBER	
10	3-344-561-01	SCREW (M4X5)	
11	7-627-553-38	SCREW, PRECISION +P 2X3	
12	7-682-148-01	SCREW +P 3X8	
13	*3-355-243-01	CASE (UPPER)	
14	*3-355-253-01	BRACKET	
15	*3-355-244-01	CASE (LOWER)	
16	7-682-546-04	SCREW +PTT 3X5 (S)	
17	7-685-133-21	SCREW +P 2.6X6 TYPE2 SLIT	
18	*4-885-838-01	(AEP)··LABEL, CLASS 1	
901	*A-3261-130-A	MOUNTED PCB, POWER AMP	
902	1-575-638-11	CORD (WITH CONNECTOR)	
903	1-575-616-11	CORD (WITH TERMINAL)	
CN401	1-575-613-11	CORD (WITH CONNECTOR)	

2. GENERAL SECTION (2)



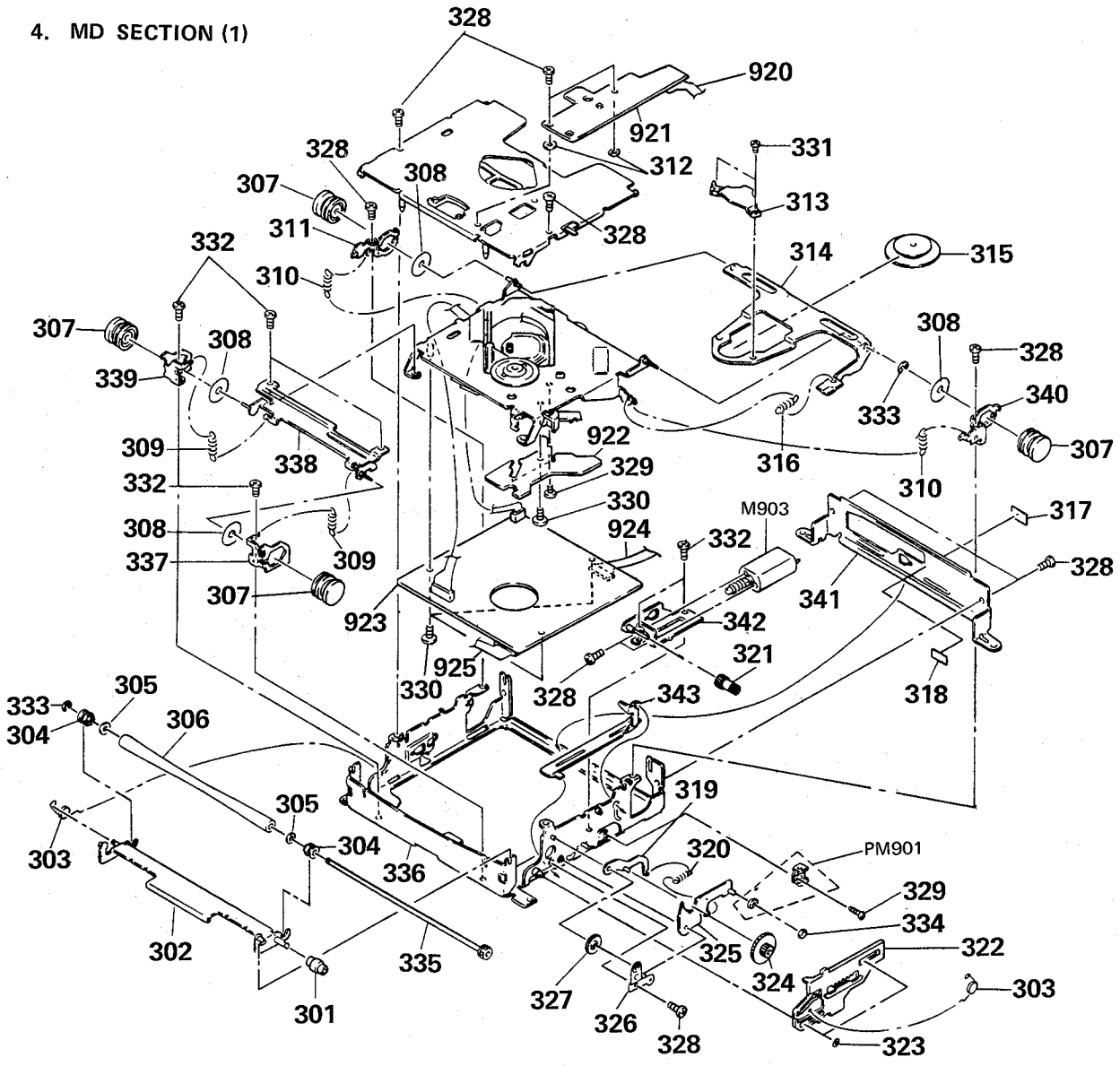
No.	Part No.	Description	Remarks
51	3-355-261-01	BUTTON (N1,S)(AM)	
52	3-355-262-01	BUTTON (N1,RD)(CD/►II)	
53	3-355-260-51	BUTTON (PRESET)(6/SHUF)	
54	3-355-260-41	BUTTON (PRESET)(5/REPEAT)	
55	3-355-260-31	BUTTON (PRESET)(4/INTRO)	
56	3-355-261-21	BUTTON (N1,S)(SENS)	
57	3-355-261-31	BUTTON (N1,S)(M.SCAN/A.MEM)	
58	3-355-260-01	BUTTON (PRESET)(1)	
59	3-355-260-11	BUTTON (PRESET)(2)	
60	3-355-260-21	BUTTON (PRESET)(3)	
61	3-355-261-11	BUTTON (N1,S)(FM)	
62	3-355-259-01	BUTTON (LOUD)	
63	3-355-258-01	BUTTON (LEVEL +)	
64	3-355-257-01	BUTTON (SELECT)	
65	3-355-256-01	BUTTON (LEVEL -)	
66	3-355-255-01	BUTTON (MUTE)	
67	3-355-263-11	BUTTON (M,S2)(SEEK/AMS)	
68	3-355-263-01	BUTTON (M,S2)(MANU)	
69	X-3339-433-1	PANEL ASSY, FRONT	
70	3-355-266-01	BUTTON (ILL)	
71	3-345-373-01	SHEET (DIFFUSION)	
72	*3-345-319-01	PLATE, LIGHT GUIDE	
73	*3-345-335-01	HOLDER (LCD)	
74	*3-355-272-01	PLATE (BUTTON), SHIELD	
75	7-685-103-19	SCREW +PTP 2X5 TYPE2 NON-SLIT	
904	*A-3219-239-A	PC BOARD ASSY, DISPLAY	
905	1-634-335-11	PC BOARD, (D) FLEXIBLE	
LCD801	1-808-983-11	DISPLAY PANEL, LIQUID CRYSTAL	

3. GENERAL SECTION (3)



No.	Part No.	Description	Remarks
101	*X-3339-432-1	CHASSIS ASSY	
102	*3-355-250-01	PANEL (S), BACK	
103	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
104	7-685-863-01	SCREW +PTT 2.6X8 (S)	
107	X-3344-502-1	LOCK ASSY (LEFT)	
108	X-3344-518-1	LOCK ASSY (R)	
109	3-645-189-00	SPRING, TENSION	
110	7-627-553-38	SCREW, PRECISION +P 2X3	
111	7-621-283-00	SCREW + 2X5	
112	7-685-790-01	SCREW +PTT 2.6X4	
906	*A-3222-041-A	(US,Canadian)...PC BOARD ASSY, MAIN	
	*A-3222-048-A	(E).....PC BOARD ASSY, MAIN	
	*A-3222-101-A	(AEP).....PC BOARD ASSY, MAIN	
907	*1-634-327-11	PC BOARD, CONNECTOR	
SW901	1-570-771-11	SWITCH	

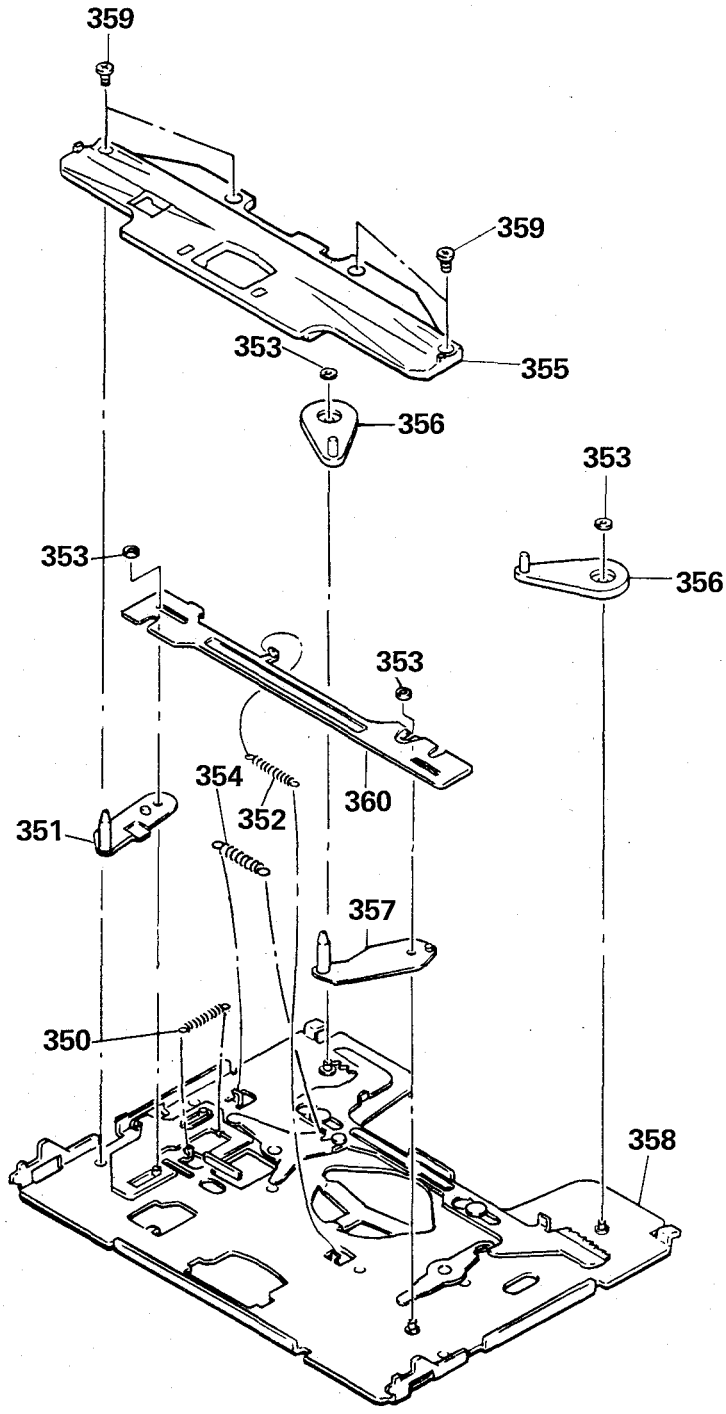
4. MD SECTION (1)



No.	Part No.	Description	Remarks
301	3-351-495-01	SLEEVE (2)	
302	*X-3351-422-1	BRACKET (ROLLER) ASSY	
303	3-351-437-01	SPRING (ROLLER)	
304	3-351-416-01	BEARING (ROLLER SHAFT)	
305	3-701-438-21	WASHER	
306	3-323-231-11	ROLLER (LOWER)	
307	3-330-929-11	DAMPER (S), HYPER	
308	3-323-263-01	WASHER, TEFLON	
309	3-351-444-01	SPRING (FLOATING A, B), TENSION	
310	3-351-445-01	SPRING (FLOATING C, D), TENSION	
311	*3-351-411-01	BRACKET (DAMPER D)	
312	3-892-464-01	SPACER, PC BOARD	
313	3-342-625-01	RETAINER (S2), THRUST	
314	*3-351-453-01	ARM, CHUCKING	
315	3-348-558-01	PLATE (F), CHUCK	
316	3-351-443-01	SPRING (CHUCKING), TENSION	
317	*3-351-470-01	SHEET, ADHESIVE	
318	*3-351-464-01	SHEET (SM), INSULATING	
319	*X-3351-420-1	LEVER (GEAR C) ASSY	
320	3-351-463-01	SPRING (SW LEVER 2), TENSION	
321	3-351-498-01	GEAR (B, WORM WHEEL)	
322	3-351-456-01	LEVER (L, E)	
323	3-578-224-00	WASHER	
324	3-351-438-01	GEAR, CAM	
325	*X-3351-421-1	LEVER (SW) ASSY	

No.	Part No.	Description	Remarks
326	*3-351-482-01	RETAINER (SIDE GEAR 2)	
327	3-351-414-01	GEAR (C)	
328	7-627-553-37	SCREW, PRECISION +P 2X3	
329	7-627-850-57	SCREW, PRECISION +P 1.4X3.5	
330	7-621-772-08	SCREW +B 2X3	
331	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
332	7-627-553-28	SCREW, PRECISION +P 2X2.5	
333	7-624-104-04	STOP RING 2.0, TYPE -E	
334	3-315-384-11	WASHER, STOPPER	
335	X-3351-413-1	ROLLER, SHAFT ASSY	
336	*X-3351-417-2	CHASSIS (MAIN) ASSY	
337	*3-351-492-01	BRACKET (DUMPER A)	
338	*X-3351-423-1	BRACKET (F) ASSY	
339	*3-351-493-01	BRACKET (DUMPER B)	
340	*3-351-494-01	BRACKET (DUMPER C)	
341	*3-351-483-01	BRACKET (REAR A)	
342	*X-3351-419-1	BRACKET (M) ASSY	
343	*X-3351-418-1	LEVER (CH RELEASE) ASSY	
920	1-634-332-11	PC BOARD, (A) FLEXIBLE	
921	*1-634-331-11	PC BOARD, LED	
922	*1-634-330-11	PC BOARD, SENSOR	
923	*A-3279-978-A	MOUNTED PCB, RF	
924	1-634-333-11	PC BOARD, (B) FLEXIBLE	
925	1-634-334-11	PC BOARD, (C) FLEXIBLE	
M903	A-3249-535-A	GEAR (A) ASSY (LOADING)	
PM901	1-454-461-11	SOLENOID, PLUNGER	

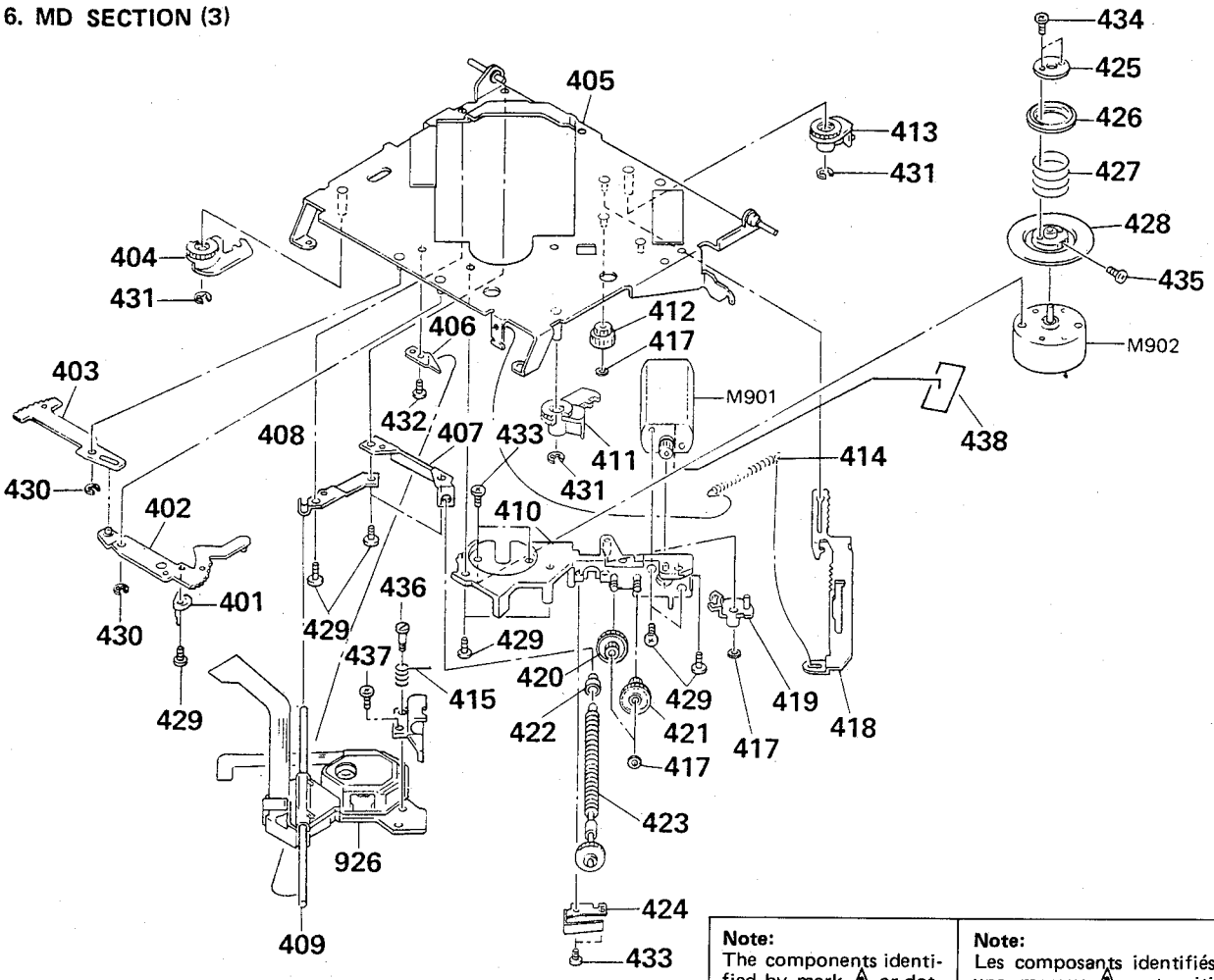
5. MD SECTION (2)



No.	Part No.	Description	Remarks
350	3-351-448-01	SPRING (LOCK LEVER), TENSION	
351	*X-3351-426-1	LEVER (D DETECTION R2) ASSY	
352	3-351-447-02	SPRING (JOINT F), TENSION	
353	3-578-224-00	WASHER	
354	3-351-446-01	SPRING (JOINT R), TENSION	

No.	Part No.	Description	Remarks
355	3-351-496-01	GUIDE (DISK 2)	
356	3-351-432-01	GEAR (DS)	
357	*X-3351-425-1	LEVER (D DETECTION L2) ASSY	
358	*X-3351-424-1	CHASSIS (T2) ASSY	
359	7-627-553-37	SCREW, PRECISION +P 2X3	
360	*3-351-489-02	JOINT (F2)	

6. MD SECTION (3)



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
401	*2-643-407-01	PLATE, SWITCH	
402	*X-2641-534-1	LEVER (A) ASSY, LOCK	
403	*2-641-582-01	LEVER (B), LOCK	
404	2-643-414-02	GEAR (B), LOCK	
405	*X-2641-536-2	CHASSIS ASSY, MAIN	
406	2-643-402-01	RETAINER (B), SHAFT	
407	2-643-403-01	RETAINER, FEED SCREW	
408	2-643-401-01	RETAINER (A), SHAFT	
409	2-640-632-01	SHAFT, GUIDE	
410	*X-2641-535-2	CHASSIS ASSY, SUB	
411	2-643-413-02	GEAR (A), LOCK	
412	2-643-405-01	WHEEL, WORM	
413	2-641-599-02	GEAR (C), GEAR	
414	2-641-595-02	SPRING, TENSION	
415	2-643-420-01	SPRING	
416	2-643-412-02	NUT, FEED	
417	3-321-813-01	WASHER, COTTER POLYETHYLENE	
418	*2-641-583-02	LEVER (C), LOCK	
419	2-643-406-02	LEVER, SELECTION	
420	2-643-410-01	GEAR (E)	

No.	Part No.	Description	Remarks
421	2-643-409-01	GEAR (D)	
422	2-643-408-02	RETAINER, THRUST	
423	A-4910-184-8	SCREW ASSY, FEED	
424	2-643-404-01	SPRING	
425	2-640-650-01	STOPPER, RING	
426	2-643-418-01	RING, CENTER	
427	2-640-617-02	SPRING, COMPRESSION	
428	X-2641-541-1	TURNTABLE ASSY	
429	7-627-554-18	SCREW, PRECISION +P 2X3.5 TYPE1	
430	7-624-104-04	STOP RING 2.0, TYPE -E	
431	7-624-106-04	STOP RING 3.0, TYPE -E	
432	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
433	7-627-552-08	SCREW, PRECISION +P 1.7X2.5	
434	7-627-451-17	SCREW, PRECISION +K 1.4X2.5	
435	7-627-451-57	SCREW, PRECISION +K 1.4X4	
436	2-643-423-01	SCREW, SP	
437	7-627-852-17	+P 1.7X4	
438	3-351-469-01	SHEET, MOTOR	
926	⚠ 8-848-124-11	DEVICE, OPTICAL KSS-168ARP	
M901	A-4910-183-A	MOTOR ASSY, SL (SLED)	
M902	1-541-448-41	MOTOR (SPINDLE)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(MAIN SECTION)

Ref.No.	Part No.	Description			
901	*A-3261-130-A	MOUNTED PCB, POWER AMP			
902	1-575-638-11	CORD (WITH CONNECTOR)			
903	1-575-616-11	CORD (WITH TERMINAL)			
904	*A-3219-239-A	PC BOARD ASSY, DISPLAY			
906	*A-3222-041-A	(US,Canadian)...PC BOARD ASSY, MAIN			
	*A-3222-048-A	(E).....PC BOARD ASSY, MAIN			
	*A-3222-101-A	(AEP).....PC BOARD ASSY, MAIN			
BT601	1-528-225-31	BATTERY, LITHIUM			
C101	1-136-165-00	FILM	0.1MF	5%	50V
C102	1-130-476-00	MYLAR	0.0027MF	5%	50V
C103	1-110-360-91	MYLAR	0.0056MF	5%	50V
C104	1-124-499-11	ELECT	1MF	20%	50V
C105	1-124-589-11	ELECT	47MF	20%	16V
C106	1-130-477-00	MYLAR	0.0033MF	5%	50V
C107	1-124-464-11	ELECT	0.22MF	20%	50V
C108	1-124-589-11	ELECT	47MF	20%	16V
C109	1-130-476-00	MYLAR	0.0027MF	5%	50V
C110	1-136-162-00	FILM	0.056MF	5%	50V
C111	1-136-162-00	FILM	0.056MF	5%	50V
C112	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C113	1-124-438-00	ELECT	1MF	20%	50V
C114	1-124-438-00	ELECT	1MF	20%	50V
C116	1-126-157-11	ELECT	10MF	20%	16V
C117	1-126-157-11	ELECT	10MF	20%	16V
C118	1-124-584-00	ELECT	100MF	20%	10V
C119	1-124-257-00	ELECT	2.2MF	20%	50V
C120	1-124-464-11	ELECT	0.22MF	20%	50V
C201	1-136-165-00	FILM	0.1MF	5%	50V
C202	1-130-476-00	MYLAR	0.0027MF	5%	50V
C203	1-110-360-91	MYLAR	0.0056MF	5%	50V
C204	1-124-499-11	ELECT	1MF	20%	50V
C205	1-124-589-11	ELECT	47MF	20%	16V
C206	1-130-477-00	MYLAR	0.0033MF	5%	50V
C207	1-124-464-11	ELECT	0.22MF	20%	50V
C208	1-124-589-11	ELECT	47MF	20%	16V
C209	1-130-476-00	MYLAR	0.0027MF	5%	50V
C210	1-136-162-00	FILM	0.056MF	5%	50V
C211	1-136-162-00	FILM	0.056MF	5%	50V
C212	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C213	1-124-438-00	ELECT	1MF	20%	50V
C214	1-124-438-00	ELECT	1MF	20%	50V
C215	1-124-589-11	ELECT	47MF	20%	16V
C216	1-126-157-11	ELECT	10MF	20%	16V
C217	1-126-157-11	ELECT	10MF	20%	16V
C218	1-124-584-00	ELECT	100MF	20%	10V
C219	1-124-257-00	ELECT	2.2MF	20%	50V
C220	1-124-464-11	ELECT	0.22MF	20%	50V
C304	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C305	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C306	1-124-589-11	ELECT	47MF	20%	16V
C307	1-124-589-11	ELECT	47MF	20%	16V
C308	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C309	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C310	1-124-584-00	ELECT	100MF	20%	10V
C311	1-124-584-00	ELECT	100MF	20%	10V
C401	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C402	1-124-584-00	ELECT	100MF	20%	10V
C403	1-126-157-11	ELECT	10MF	20%	16V
C404	1-124-464-11	ELECT	0.22MF	20%	50V
C405	1-124-589-11	ELECT	47MF	20%	16V
C406	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C407	1-126-154-11	ELECT	47MF	20%	6.3V
C408	1-126-154-11	ELECT	47MF	20%	6.3V
C410	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C411	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C412	1-126-281-11	ELECT	4.7MF	20%	16V
C413	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C414	1-126-281-11	ELECT	4.7MF	20%	16V
C501	1-126-247-11	ELECT	560MF	20%	6.3V
C502	1-126-927-11	ELECT	2200MF	20%	10V
C503	1-126-154-11	ELECT	47MF	20%	6.3V
C504	1-136-153-00	FILM	0.01MF	5%	50V
C505	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C506	1-126-154-11	ELECT	47MF	20%	6.3V
C507	1-126-154-11	ELECT	47MF	20%	6.3V
C508	1-126-154-11	ELECT	47MF	20%	6.3V
C510	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C511	1-126-767-51	ELECT	1000MF	20%	16V
C601	1-124-257-00	ELECT	2.2MF	20%	50V
C602	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C603	1-124-257-00	ELECT	2.2MF	20%	50V
C604	1-136-165-00	FILM	0.1MF	5%	50V
C605	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C606	1-163-157-00	FILM	0.022MF	5%	50V
C607	1-126-566-11	ELECT	3.3MF	20%	25V
C608	1-126-566-11	ELECT	3.3MF	20%	25V
C609	1-124-589-11	ELECT	47MF	20%	16V

Ref.No.	Part No.	Description			
C610	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C611	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C612	1-124-589-11	ELECT	47MF	20%	16V
C613	1-126-281-11	ELECT	4.7MF	20%	16V
C614	1-126-560-61	ELECT	22MF	20%	10V
C615	1-130-477-00	MYLAR	0.0033MF	5%	50V
C616	1-163-157-00	FILM	0.022MF	5%	50V
C617	1-136-153-00	FILM	0.01MF	5%	50V
C618	1-130-474-00	MYLAR	0.0018MF	5%	50V
C619	1-126-281-11	ELECT	4.7MF	20%	16V
C620	1-124-438-00	ELECT	1MF	20%	50V
C621	1-124-464-11	ELECT	0.22MF	20%	50V
C622	1-124-438-00	ELECT	1MF	20%	50V
C623	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C624	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C625	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C626	1-126-154-11	ELECT	47MF	20%	6.3V
C627	1-136-155-00	(AEP, E)··FILM	0.015MF	5%	50V
C627	1-163-157-00	(US,Canadian) ...FILM	0.022MF	5%	50V
C628	1-136-155-00	(AEP, E)··FILM	0.015MF	5%	50V
C628	1-163-157-00	(US,Canadian) ...FILM	0.022MF	5%	50V
C629	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C630	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C701	1-124-438-00	ELECT	1MF	20%	50V
C702	1-124-438-00	ELECT	1MF	20%	50V
C703	1-126-925-11	ELECT	470MF	20%	10V
C704	1-126-933-71	ELECT	100MF	20%	16V
C705	1-124-360-00	ELECT	1000MF	20%	16V
C706	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C707	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C708	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C709	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C721	1-124-343-00	ELECT	2200MF	20%	16V
C722	1-124-234-00	ELECT	22MF	20%	16V
C723	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C751	1-124-438-00	ELECT	1MF	20%	50V
C752	1-124-438-00	ELECT	1MF	20%	50V
C753	1-126-925-11	ELECT	470MF	20%	10V
C754	1-126-933-71	ELECT	100MF	20%	16V
C755	1-124-360-00	ELECT	1000MF	20%	16V
C756	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C757	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C758	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C759	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
C801	1-163-201-00	CERAMIC CHIP	680PF	5%	50V
C802	1-162-637-11	CERAMIC CHIP	0.47MF		16V
C901	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C902	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C903	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C908	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
CN401	1-575-613-11	CORD (WITH CONNECTOR)			
CNJ1	*1-569-582-11	SOCKET, CONNECTOR 17P			
CNJ2	*1-563-003-21	SOCKET, CONNECTOR 20P			
CNJ3	*1-569-630-11	SOCKET, CONNECTOR 9P			

Ref.No.	Part No.	Description
CNJ4	1-566-531-11	CONNECTOR, FPC (ZIF) 15P
CNJ5	1-566-531-11	CONNECTOR, FPC (ZIF) 15P
CNJ901	1-568-224-11	PLUG, CONNECTOR 28P
CNP1	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P
CNP701	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P
CNP702	*1-564-214-11	PIN, CONNECTOR 3P
CNP703	1-569-362-11	CONNECTOR
CNP901	*1-569-581-11	PIN, CONNECTOR 17P
D101	8-719-109-72	DIODE RD3.9ES-B2
D102	8-719-109-72	DIODE RD3.9ES-B2
D103	8-719-109-75	DIODE RD4.3ES-B2
D201	8-719-109-72	DIODE RD3.9ES-B2
D202	8-719-109-72	DIODE RD3.9ES-B2
D203	8-719-109-75	DIODE RD4.3ES-B2
D301	8-719-109-75	DIODE RD4.3ES-B2
D402	8-719-120-75	DIODE RD6.2ES-L1
D403	8-719-110-46	DIODE RD16ES-B3
D404	8-719-120-75	DIODE RD6.2ES-L1
D405	8-719-911-19	DIODE 1SS119
D406	8-719-110-13	DIODE RD9.1ES-B2
D407	8-719-110-09	DIODE RD8.2ES-B3
D408	8-719-911-19	DIODE 1SS119
D409	8-719-911-19	DIODE 1SS119
D410	8-719-110-14	DIODE RD9.1ES-B3
D411	8-719-110-13	DIODE RD9.1ES-B2
D412	8-719-120-75	DIODE RD6.2ES-L1
D413	8-719-104-34	DIODE 1S2836
D414	8-719-109-89	DIODE RD5.6ES-B2
D415	8-719-911-19	DIODE 1SS119
D416	8-719-400-18	DIODE MA152WK
D501	8-719-911-19	DIODE 1SS119
D502	8-719-911-19	DIODE 1SS119
D503	8-719-911-19	DIODE 1SS119
D504	8-719-911-19	DIODE 1SS119
D505	8-719-400-18	DIODE MA152WK
D506	8-719-110-13	DIODE RD9.1ES-B2
D507	8-719-911-19	DIODE 1SS119
D509	8-719-911-19	DIODE 1SS119
D510	8-719-911-19	DIODE 1SS119
D511	8-719-911-19	DIODE 1SS119
D601	8-719-800-76	DIODE 1SS226
D602	8-719-104-34	DIODE 1S2836
D603	8-719-911-19	DIODE 1SS119
D604	8-719-911-19	DIODE 1SS119
D721	8-719-304-70	DIODE PZ427
D801	8-719-975-27	DIODE CL-55Y/PG-D
D802	8-719-975-27	DIODE CL-55Y/PG-D
D803	8-719-975-27	DIODE CL-55Y/PG-D
D804	8-719-975-27	DIODE CL-55Y/PG-D
D805	8-719-975-27	DIODE CL-55Y/PG-D
D806	8-719-975-27	DIODE CL-55Y/PG-D
D807	8-719-975-27	DIODE CL-55Y/PG-D
D808	8-719-975-27	DIODE CL-55Y/PG-D
D809	8-719-975-27	DIODE CL-55Y/PG-D
D810	8-719-975-27	DIODE CL-55Y/PG-D
D811	8-719-975-27	DIODE CL-55Y/PG-D

Ref.No.	Part No.	Description
D812	8-719-975-27	DIODE CL-55Y/PG-D
D813	8-719-975-27	DIODE CL-55Y/PG-D
D814	8-719-975-27	DIODE CL-55Y/PG-D
D815	8-719-975-27	DIODE CL-55Y/PG-D
D816	8-719-975-27	DIODE CL-55Y/PG-D
D817	8-719-975-27	DIODE CL-55Y/PG-D
D818	8-719-975-27	DIODE CL-55Y/PG-D
D819	8-719-975-27	DIODE CL-55Y/PG-D
D820	8-719-975-27	DIODE CL-55Y/PG-D
D821	8-719-975-27	DIODE CL-55Y/PG-D
D822	8-719-975-27	DIODE CL-55Y/PG-D
D823	8-719-975-27	DIODE CL-55Y/PG-D
D824	8-719-975-27	DIODE CL-55Y/PG-D
D825	8-719-975-27	DIODE CL-55Y/PG-D
D826	8-719-975-27	DIODE CL-55Y/PG-D
D827	8-719-975-27	DIODE CL-55Y/PG-D
D828	8-719-975-27	DIODE CL-55Y/PG-D
D829	8-719-400-18	DIODE MA152WK
FE601	1-465-140-11	TUNER UNIT
HIC601	1-808-516-11	(US, Canadian)··IC NMX3S920
HIC601	1-808-515-11	(AEP, E)·····IC NMX3S900
IC101	8-759-909-71	IC BA4558F
IC102	8-759-909-71	IC BA4558F
IC103	8-759-909-71	IC BA4558F
IC104	8-759-909-71	IC BA4558F
IC201	8-759-909-71	IC BA4558F
IC202	8-759-909-71	IC BA4558F
IC203	8-759-909-71	IC BA4558F
IC204	8-759-909-71	IC BA4558F
IC301	8-759-501-31	IC SM5840CS
IC302	8-759-909-71	IC BA4558F
IC303	8-759-932-64	IC BU4052BF
IC304	8-759-820-15	IC LC7537AN
IC305	8-759-631-00	IC M5280FP
IC306	8-759-822-61	IC LC78820M
IC401	8-759-982-07	IC RC7808FA
IC402	8-759-982-31	IC RC78M05FA
IC501	8-759-149-70	IC UPD75516GF-107-3B9
IC502	8-759-937-86	IC BU4081BF
IC503	8-759-802-76	IC LB1645N
IC601	8-759-821-43	IC LC7218M
IC701	8-759-501-33	IC TDA1519A
IC751	8-759-501-33	IC TDA1519A
IC801	8-759-821-44	IC LC7582
JR501	1-216-295-00	(AEP, E)··METAL GLAZE 0 5% 1/4W
JR502	1-216-295-00	(AEP)····METAL GLAZE 0 5% 1/4W
L401	1-408-419-00	INDUCTOR 68UH
L501	1-408-424-00	INDUCTOR 180UH
L502	1-408-424-00	INDUCTOR 180UH
L503	1-408-424-00	INDUCTOR 180UH
L601	1-410-513-11	INDUCTOR 22UH
PL801	1-518-524-11	LAMP, PILOT
PL802	1-518-646-11	LAMP, PILOT
PL803	1-518-524-11	LAMP, PILOT
PL804	1-518-646-11	LAMP, PILOT
Q101	8-729-920-21	TRANSISTOR DTC314TKH04
Q102	8-729-920-21	TRANSISTOR DTC314TKH04
Q201	8-729-920-21	TRANSISTOR DTC314TKH04
Q202	8-729-920-21	TRANSISTOR DTC314TKH04
Q401	8-729-901-01	TRANSISTOR DTC144EK
Q402	8-729-901-78	TRANSISTOR 2SC2412K-R
Q403	8-729-901-01	TRANSISTOR DTC144EK
Q404	8-729-901-78	TRANSISTOR 2SC2412K-R
Q405	8-729-106-60	TRANSISTOR 2SB1115A
Q406	8-729-901-00	TRANSISTOR DTC124EK
Q407	8-729-921-48	TRANSISTOR 2SD1760F5-Q
Q408	8-729-106-60	TRANSISTOR 2SB1115A
Q409	8-729-901-00	TRANSISTOR DTC124EK
Q410	8-729-921-48	TRANSISTOR 2SD1760F5-Q
Q411	8-729-901-05	TRANSISTOR DTA124EK
Q412	8-729-901-00	TRANSISTOR DTC124EK
Q413	8-729-901-78	TRANSISTOR 2SC2412K-R
Q414	8-729-922-47	TRANSISTOR 2SB1184-F5-R
Q415	8-729-901-00	TRANSISTOR DTC124EK
Q416	8-729-106-60	TRANSISTOR 2SB1115A
Q417	8-729-901-00	TRANSISTOR DTC124EK
Q418	8-729-921-48	TRANSISTOR 2SD1760F5-Q
Q419	8-729-903-63	TRANSISTOR 2SD1664-R
Q420	8-729-922-47	TRANSISTOR 2SB1184-F5-R
Q421	8-729-901-00	TRANSISTOR DTC124EK
Q422	8-729-901-78	TRANSISTOR 2SC2412K-R
Q423	8-729-903-63	TRANSISTOR 2SD1664-R
Q424	8-729-901-05	TRANSISTOR DTA124EK
Q425	8-729-901-00	TRANSISTOR DTC124EK
Q428	8-729-922-47	TRANSISTOR 2SB1184-F5-R
Q429	8-729-106-60	TRANSISTOR 2SB1115A
Q430	8-729-901-00	TRANSISTOR DTC124EK
Q501	8-729-901-78	TRANSISTOR 2SC2412K-R
Q502	8-729-901-78	TRANSISTOR 2SC2412K-R
Q503	8-729-900-53	TRANSISTOR DTC114EK
Q504	8-729-922-94	TRANSISTOR DTC143TU
Q505	8-729-900-53	TRANSISTOR DTC114EK
Q601	8-729-901-05	TRANSISTOR DTA124EK
Q602	8-729-901-78	TRANSISTOR 2SC2412K-R
Q603	8-729-901-78	TRANSISTOR 2SC2412K-R
Q604	8-729-901-78	TRANSISTOR 2SC2412K-R
Q605	8-729-901-78	TRANSISTOR 2SC2412K-R
Q606	8-729-106-60	TRANSISTOR 2SB1115A
Q607	8-729-106-60	TRANSISTOR 2SB1115A
Q609	8-729-901-78	TRANSISTOR 2SC2412K-R
Q721	8-729-901-00	TRANSISTOR DTC124EK
Q722	8-729-901-00	TRANSISTOR DTC124EK
Q723	8-729-901-00	TRANSISTOR DTC124EK
Q801	8-729-904-66	TRANSISTOR DTD113EK
Q802	8-729-904-66	TRANSISTOR DTD113EK
Q803	8-729-904-66	TRANSISTOR DTD113EK
Q804	8-729-904-66	TRANSISTOR DTD113EK
R101	1-216-286-00	METAL GLAZE 4.7M 5% 1/8W
R102	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R103	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R104	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R105	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R106	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R107	1-216-073-00	METAL GLAZE 10K 5% 1/10W

Ref.No.	Part No.	Description			
R108	1-216-079-00	(US,Canadian)			
		...METAL GLAZE	18K	5%	1/10W
R108	1-216-085-00	(AEP,E)··METAL GLAZE	33K	5%	1/10W
R109	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R110	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R111	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R112	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R113	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R114	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R115	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R116	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R117	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R118	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R119	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R120	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R121	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R122	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R123	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R124	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R125	1-216-041-00	METAL GLAZE	470	5%	1/10W
R201	1-216-286-00	METAL GLAZE	4.7M	5%	1/8W
R202	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R203	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R204	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R205	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R206	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R207	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R208	1-216-079-00	(US,Canadian)			
		...METAL GLAZE	18K	5%	1/10W
R208	1-216-085-00	(AEP,E)··METAL GLAZE	33K	5%	1/10W
R209	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R210	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R211	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R212	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R213	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R214	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R215	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R216	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R217	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R218	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R219	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R220	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R221	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R222	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R223	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R224	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R225	1-216-041-00	METAL GLAZE	470	5%	1/10W
R304	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R305	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R306	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R307	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R308	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R309	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R401	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R402	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R403	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R404	1-216-089-00	METAL GLAZE	47K	5%	1/10W

Ref.No.	Part No.	Description			
R405	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R406	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R407	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R408	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R409	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R410	1-216-035-00	METAL GLAZE	270	5%	1/10W
R411	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R412	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R413	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R414	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R415	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R416	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R417	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R418	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R419	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R420	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R421	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R422	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R423	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R424	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R425	1-216-035-00	METAL GLAZE	270	5%	1/10W
R426	1-216-035-00	METAL GLAZE	270	5%	1/10W
R427	1-216-194-00	METAL GLAZE	680	5%	1/8W
R428	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R429	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R430	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R431	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R432	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R433	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R434	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R436	1-216-194-00	METAL GLAZE	680	5%	1/8W
R438	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R439	1-216-200-00	METAL GLAZE	1.2K	5%	1/8W
R440	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R441	1-249-331-11	CARBON MELF	470	5%	1/8W
R501	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R502	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R503	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R504	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R505	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R506	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R507	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R508	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R509	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R510	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R511	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R512	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R513	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R514	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R515	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R516	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R517	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R518	1-216-035-00	METAL GLAZE	270	5%	1/10W
R519	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R520	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R521	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R522	1-216-097-00	METAL GLAZE	100K	5%	1/10W

Ref.No.	Part No.	Description			
R523	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R524	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R525	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R526	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R528	1-216-001-00	METAL GLAZE	10	5%	1/10W
R529	1-216-027-00	METAL GLAZE	120	5%	1/10W
R530	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R531	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R532	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R533	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R534	1-216-295-00	METAL GLAZE	0	5%	1/10W
R601	1-216-045-00	(AEP, E)··METAL GLAZE	680	5%	1/10W
R601	1-216-049-00	(US,Canadian) ...METAL GLAZE	1K	5%	1/10W
R602	1-216-043-00	METAL GLAZE	560	5%	1/10W
R603	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R604	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R605	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R606	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R607	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R608	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R609	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R610	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R611	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R612	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R613	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R614	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R615	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R616	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R617	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R618	1-216-080-00	METAL GLAZE	20K	5%	1/10W
R619	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R620	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R621	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R622	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R623	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R624	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R625	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R626	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R627	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R628	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R629	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R701	1-216-748-11	METAL GLAZE	39K	5%	1/10W
R702	1-216-748-11	METAL GLAZE	39K	5%	1/10W
R703	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R704	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R705	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R706	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R721	1-216-037-00	METAL GLAZE	330	5%	1/10W
R722	1-216-001-00	METAL GLAZE	10	5%	1/10W
R723	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R724	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R751	1-216-748-11	METAL GLAZE	39K	5%	1/10W
R752	1-216-748-11	METAL GLAZE	39K	5%	1/10W
R753	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R754	1-216-075-00	METAL GLAZE	12K	5%	1/10W

Ref.No.	Part No.	Description			
R755	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R756	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R801	1-216-239-00	METAL GLAZE	51K	5%	1/8W
R802	1-216-262-00	METAL GLAZE	470K	5%	1/8W
R803	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R804	1-216-182-00	METAL GLAZE	220	5%	1/8W
R805	1-216-178-00	METAL GLAZE	150	5%	1/8W
R806	1-216-188-00	METAL GLAZE	390	5%	1/8W
R807	1-216-184-00	METAL GLAZE	270	5%	1/8W
R808	1-216-182-00	METAL GLAZE	220	5%	1/8W
R809	1-216-178-00	METAL GLAZE	150	5%	1/8W
R810	1-216-182-00	METAL GLAZE	220	5%	1/8W
R811	1-216-178-00	METAL GLAZE	150	5%	1/8W
R812	1-216-182-00	METAL GLAZE	220	5%	1/8W
R813	1-216-178-00	METAL GLAZE	150	5%	1/8W
R814	1-216-182-00	METAL GLAZE	220	5%	1/8W
R815	1-216-178-00	METAL GLAZE	150	5%	1/8W
R816	1-216-188-00	METAL GLAZE	390	5%	1/8W
R817	1-216-184-00	METAL GLAZE	270	5%	1/8W
R818	1-216-182-00	METAL GLAZE	220	5%	1/8W
R819	1-216-178-00	METAL GLAZE	150	5%	1/8W
R820	1-216-182-00	METAL GLAZE	220	5%	1/8W
R821	1-216-178-00	METAL GLAZE	150	5%	1/8W
R822	1-216-182-00	METAL GLAZE	220	5%	1/8W
R823	1-216-178-00	METAL GLAZE	150	5%	1/8W
R901	1-216-198-00	METAL GLAZE	1K	5%	1/8W
RV601	1-238-207-11	RES, ADJ, METAL GLAZE 100K			
RV602	1-238-204-11	RES, ADJ, METAL GLAZE 10K			
SW501	1-553-510-00	SWITCH, SLIDE			
SW502	1-553-510-00	(E)...SWITCH, SLIDE			
SW701	1-570-827-11	SWITCH, SLIDE (SSJ3)			
SW801	1-554-813-41	SWITCH, KEY BOARD (MUTE)			
SW802	1-554-813-41	SWITCH, KEY BOARD (-)			
SW803	1-554-813-41	SWITCH, KEY BOARD (SELECT)			
SW804	1-554-813-41	SWITCH, KEY BOARD (+)			
SW805	1-554-813-41	SWITCH, KEY BOARD (LOUD)			
SW806	1-554-813-41	SWITCH, KEY BOARD (SENS)			
SW807	1-571-938-21	SWITCH, KEY BOARD (ILL)			
SW809	1-554-813-41	SWITCH, KEY BOARD (MANU -)			
SW810	1-554-813-41	SWITCH, KEY BOARD (MANU +)			
SW811	1-554-813-41	SWITCH, KEY BOARD (SEEK -)			
SW812	1-554-813-41	SWITCH, KEY BOARD (SEEK +)			
SW813	1-554-813-41	SWITCH, KEY BOARD (3)			
SW814	1-554-813-41	SWITCH, KEY BOARD (4)			
SW815	1-554-813-41	SWITCH, KEY BOARD (5)			
SW816	1-554-813-41	SWITCH, KEY BOARD (6)			
SW817	1-554-813-41	SWITCH, KEY BOARD (▲)			
SW818	1-554-813-41	SWITCH, KEY BOARD (M.SCAN)			
SW819	1-554-813-41	SWITCH, KEY BOARD (1)			
SW820	1-554-813-41	SWITCH, KEY BOARD (2)			
SW821	1-554-813-41	SWITCH, KEY BOARD (OFF)			
SW822	1-554-813-41	SWITCH, KEY BOARD (FM)			
SW823	1-554-813-41	SWITCH, KEY BOARD (AM)			
SW824	1-554-813-41	SWITCH, KEY BOARD (CD)			
SW825	1-571-938-21	SWITCH, KEY BOARD (RESET)			
SW901	1-570-771-11	SWITCH			

Ref.No.	Part No.	Description
TH501	1-808-656-11	THERMISTOR
X301	1-567-820-11	VIBRATOR, CRYSTAL (16MHz)
X501	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)
X601	1-567-250-11	OSCILLATOR, CERAMIC (4.56MHz)
X602	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)

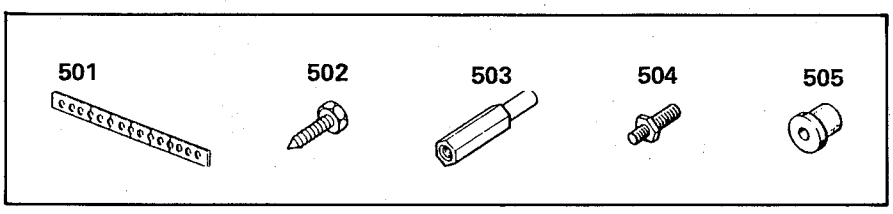
ACCESSORY & PACKING MATERIAL

1-575-615-11	CORD (WITH CONNECTOR)
3-302-708-00	COVER, CONNECTOR
3-336-617-01	BAG, PROTECTION
3-355-210-01	COVER (2), PIN JACK
*3-355-284-01	INDIVIDUAL CARTON
*3-355-286-01	CUSHION (UPPER)
*3-355-287-01	CUSHION (LOWER)
3-751-548-11	(E).....MANUAL, INSTRUCTION
3-751-548-21	(US,Canadian)...MANUAL, INSTRUCTION
3-751-549-11	(AEP,E)·····MANUAL, INSTRUCTION
3-751-549-21	(US,Canadian)...MANUAL, INSTRUCTION
3-751-549-41	(AEP)·····MANUAL, INSTRUCTION

MOUNTING HARDWARE

No.	Part No.	Description
501	3-310-655-01	SUPPORT (ND), FITTING
502	3-302-126-01	SCREW TAPPING (DIA 5X20)
503	3-323-210-01	ADJUSTOR, STUD BOLT
504	3-323-209-01	BOLT (4-5), STUD
505	3-349-410-01	BUSHING

SUPPLIED MOUNTING HARDWARE



(MD SECTION)

Ref.No.	Part No.	Description		
905	1-634-335-11	PC BOARD, (D) FLEXIBLE		
907	*1-634-327-11	PC BOARD, CONNECTOR		
920	1-634-332-11	PC BOARD, (A) FLEXIBLE		
921	*1-634-331-11	PC BOARD, LED		
922	*1-634-330-11	PC BOARD, SENSOR		
923	*A-3279-978-A	MOUNTED PCB, RF		
924	1-634-333-11	PC BOARD, (B) FLEXIBLE		
925	1-634-334-11	PC BOARD, (C) FLEXIBLE		
926	⚠8-848-124-11	DEVICE, OPTICAL KSS-168ARP		
C1	1-135-166-21	TANTAL. CHIP 47MF	20%	6.3V
C2	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C3	1-126-599-11	ELECT 330MF	20%	6.3V
C4	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C5	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C6	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C7	1-163-078-11	CERAMIC CHIP 0.033MF	10%	25V
C8	1-163-059-00	CERAMIC CHIP 0.01MF	10%	50V
C9	1-126-593-11	ELECT CHIP 0.47MF	20%	50V
C10	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C11	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C12	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C13	1-126-593-11	ELECT CHIP 0.47MF	20%	50V
C14	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C15	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C16	1-126-590-11	ELECT CHIP 22MF	20%	4V
C17	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C18	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C19	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C20	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C21	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C22	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C23	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C24	1-126-594-11	ELECT CHIP 1MF	20%	50V
C25	1-126-594-11	ELECT CHIP 1MF	20%	50V
C26	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V
C27	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V
C29	1-126-590-11	ELECT CHIP 22MF	20%	4V
C30	1-126-590-11	ELECT CHIP 22MF	20%	4V
C31	1-126-590-11	ELECT CHIP 22MF	20%	4V
C34	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C35	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C36	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C37	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C38	1-162-638-11	CERAMIC CHIP 1MF		16V
C39	1-162-638-11	CERAMIC CHIP 1MF		16V
C40	1-126-176-11	ELECT 220MF	20%	10V

Ref.No.	Part No.	Description
CNJ11	1-568-141-11	HOUSING, CONNECTOR 5P
CNJ12	1-568-142-11	HOUSING, CONNECTOR 13P
CNJ13	1-566-531-11	CONNECTOR, FPC (ZIF) 15P
CNJ14	1-566-531-11	CONNECTOR, FPC (ZIF) 15P
CNP10	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P
D80	8-719-404-19	DIODE LN1251C
D81	8-719-404-19	DIODE LN1251C
D82	8-719-404-19	DIODE LN1251C
IC1	8-752-033-14	IC CXA1081Q
IC2	8-752-037-50	IC CXA1082BQ
IC3	8-752-334-28	IC CXD1167Q
IC4	8-759-821-76	IC LA6533
IC5	8-759-821-76	IC LA6533
JR1	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR2	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR4	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR5	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR6	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR7	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR12	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR13	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR15	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR16	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR17	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR18	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR22	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR26	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR27	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR28	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR30	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR31	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR32	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR33	1-216-296-00	METAL GLAZE 0 5% 1/8W

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
JR34	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR51	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR52	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR53	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR54	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR55	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR56	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR57	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR58	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR59	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR60	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR61	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR62	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR63	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR64	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR65	1-216-295-00	METAL GLAZE	0	5%	1/10W
JR90	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR91	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR92	1-216-296-00	METAL GLAZE	0	5%	1/8W
L1	1-410-204-31	INDUCTOR CHIP 10UH			
L2	1-410-198-51	INDUCTOR CHIP 3.3UH			
LCD801	1-808-983-11	DISPLAY PANEL, LIQUID CRYSTAL			
M901	A-4910-183-A	MOTOR ASSY, SL (SLED)			
M902	1-541-448-41	MOTOR (SPINDLE)			
M903	A-3249-535-A	GEAR (A) ASSY (LOADING)			
PM901	1-454-461-11	SOLENOID, PLUNGER			
Q1	8-729-900-53	TRANSISTOR DTC114EK			
Q2	8-729-900-53	TRANSISTOR DTC114EK			
Q3	8-729-900-53	TRANSISTOR DTC114EK			
Q4	8-729-141-48	TRANSISTOR 2SB624-BV345			
Q90	8-729-402-08	TRANSISTOR PN147-LF			
Q91	8-729-402-08	TRANSISTOR PN147-LF			
Q92	8-729-402-08	TRANSISTOR PN147-LF			
R1	1-216-150-00	METAL GLAZE	10	5%	1/8W
R2	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R3	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R4	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R5	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R6	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R7	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R8	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R10	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R11	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R12	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R13	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R14	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R15	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R16	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R17	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R18	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R19	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R20	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R21	1-216-085-00	METAL GLAZE	33K	5%	1/10W

Ref.No.	Part No.	Description			
R22	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R23	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R24	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R25	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R26	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R27	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R28	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R29	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R30	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R31	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R32	1-216-076-00	METAL GLAZE	13K	5%	1/10W
R33	1-216-076-00	METAL GLAZE	13K	5%	1/10W
R34	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R35	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R36	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R37	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R38	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R39	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R40	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R41	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R42	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R43	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R44	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R45	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R46	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R47	1-216-229-00	METAL GLAZE	20K	5%	1/8W
R48	1-216-220-00	METAL GLAZE	8.2K	5%	1/8W
R49	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R50	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R51	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R52	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R53	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R54	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R55	1-216-024-00	METAL GLAZE	91	5%	1/10W
RV1	1-238-205-	RES, ADJ, METAL GLAZE 22K			
RV2	1-238-206-11	RES, ADJ, METAL GLAZE 47K			
RV3	1-238-665-11	RES, ADJ, CERMET 22K			
RV4	1-238-665-11	RES, ADJ, CERMET 22K			
RV5	1-238-662-11	RES, ADJ, CERMET 2.2K			
SW80	1-571-754-11	SWITCH, PUSH (1 KEY)			
SW81	1-571-754-11	SWITCH, PUSH (1 KEY)			
SW90	1-554-938-11	SWITCH, LEAF			
SW91	1-554-938-11	SWITCH, LEAF			
TH1	1-808-656-11	THERMISTOR			
TH2	1-808-656-11	THERMISTOR			

9-955-720-11

Sony Corporation
Mobile Electronics Group

English
90E0680-1
Printed in Japan
©1990.5
Published by Customer Relations and Service Group